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PROCESSING COMPLETED FOR L44  
L49 320 DUP REM L48 L44 (16 DUPLICATES REMOVED)  
ANSWERS '1-61' FROM FILE CASREACT  
ANSWERS '62-320' FROM FILE HCAPLUS

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 12:30:39 ON 24 JAN 2007  
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=> file stnguide

FILE 'STNGUIDE' ENTERED AT 12:32:29 ON 24 JAN 2007  
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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jan 19, 2007 (20070119/UP).

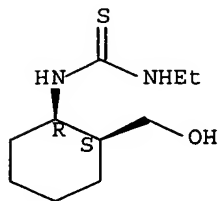
=> => d ibib ed ab hitstr 62-320  
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, CASREACT' - CONTINUE? (Y)/N:y

THE ESTIMATED COST FOR THIS REQUEST IS 1364.93 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L49 ANSWER 62 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 12  
ACCESSION NUMBER: 1987:554299 HCAPLUS Full-text  
DOCUMENT NUMBER: 107:154299  
TITLE: Synthesis of stereoisomeric 2-(ethylimino)-3,1-  
perhydrobenzoxazines and -benzothiazines  
AUTHOR(S): Bernath, Gabor; Fulop, Ferenc; Csirinyi, Gyorgy;  
Szalma, Sandor  
CORPORATE SOURCE: Gyogyszereszi Vegytani Intez., SZOTE, Szeged, 6701,  
Hung.  
SOURCE: Magyar Kemiai Folyoirat (1986), 92(7),  
328-31  
CODEN: MGKFA3; ISSN: 0025-0155  
DOCUMENT TYPE: Journal  
LANGUAGE: Hungarian  
ED Entered STN: 31 Oct 1987  
AB The cis- and trans-(hydroxymethyl)cyclohexylamines I (R = H, Me, Ph; R1 = H)  
were treated with EtNCS to give I (R1 = EtNHCS), which were cyclized by MeI to  
give the cis- and trans-benzoxazines II (X = O). Cyclization of I (R1 =  
EtNHCS) by HCl gave cis- and trans-benzothiazines II (X = S).  
IT 106690-59-9P 106690-60-2P 106690-61-3P  
106690-62-4P 106690-63-5P 106690-64-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and intramol. cyclization of, perhydrobenzoxazines  
and -benzothiazines from)

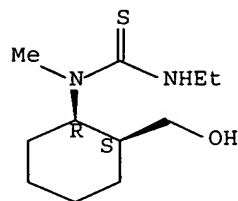
RN 106690-59-9 HCAPLUS  
CN Thiourea, N-ethyl-N'-[2-(hydroxymethyl)cyclohexyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



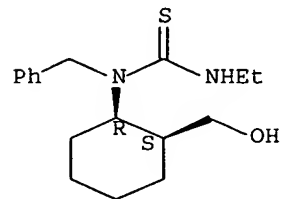
RN 106690-60-2 HCAPLUS  
CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 106690-61-3 HCAPLUS  
CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

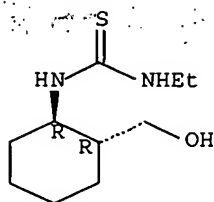
Relative stereochemistry.



RN 106690-62-4 HCAPLUS  
CN Thiourea, N-ethyl-N'-[2-(hydroxymethyl)cyclohexyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

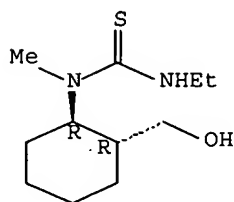




RN 106690-63-5 HCAPLUS

CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-methyl-, trans- (9CI)  
(CA INDEX NAME)

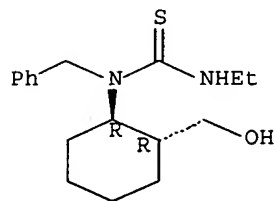
Relative stereochemistry.



RN 106690-64-6 HCAPLUS

CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L49 ANSWER 63 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:634301 HCAPLUS Full-text

DOCUMENT NUMBER: 141:295915

TITLE: Highly enantioselective catalytic acyl-Pictet-Spengler reactions

AUTHOR(S): Taylor, Mark S.; Jacobsen, Eric N.

CORPORATE SOURCE: Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA

SOURCE: Journal of the American Chemical Society (2004), 126(34), 10558-10559

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 141:295915

ED Entered STN: 08 Aug 2004

AB The enantioselective cyclization of N-acyliminium ions generated in situ from tryptamine was promoted with high enantioselectivity by a chiral thiourea catalyst. This represents the a successful system for asym. catalysis of the Pictet-Spengler reaction.

IT 764650-97-7P

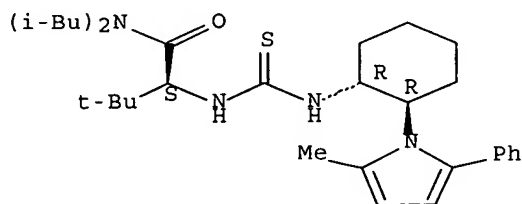
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);  
USES (Uses)

(preparation and ligand use of N,N-(diisobutyl)dimethyl[(pyrrolylcyclohexyl)thioureido]butyramide via amidation of Boc-t-leucine with diisopropylamine followed by thiocarbonylation and amidation with [methyl(phenyl)pyrrolyl]cyclohexylamine)

RN 764650-97-7 HCAPLUS

CN Butanamide, 3,3-dimethyl-2-[[[(1R,2R)-2-(2-methyl-5-phenyl-1H-pyrrol-1-yl)cyclohexyl]amino]thioxomethyl]amino]-N,N-bis(2-methylpropyl)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 764650-89-7P

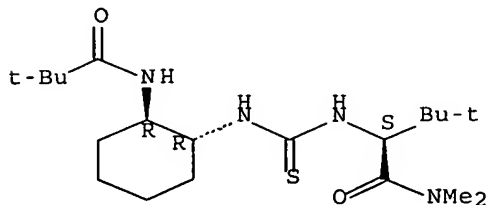
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);  
USES (Uses)

(preparation and ligand use of [(dimethylpropionylaminecyclohexyl)thioureido]tetramethylbutyramide via Boc-protection of [(aminocyclohexyl)thioureido]tetramethylbutyramide)

RN 764650-89-7 HCAPLUS

CN Butanamide, 2-[[[(1R,2R)-2-[(2,2-dimethyl-1-oxopropyl)amino]cyclohexyl]amino]thioxomethyl]amino]-N,N,3,3-tetramethyl-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 462632-53-7

RL: RCT (Reactant); RACT (Reactant or reagent)

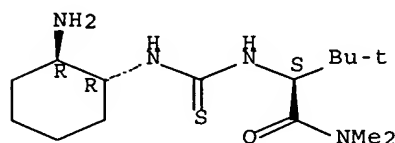
(preparation and ligand use of

[(dimethylpropionylaminecyclohexyl)thioureido  
]tetramethylbutyramide via Boc-protection of  
[(aminocyclohexyl)thioureido]tetramethylbutyramide)

RN 462632-53-7 HCAPLUS

CN Butanamide, 2-[[[(1R,2R)-2-aminocyclohexyl]amino]thioxomethyl]amino]-  
N,N,3,3-tetramethyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 764650-94-4P 764650-95-5P 764650-96-6P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

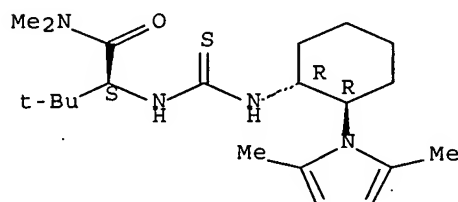
USES (Uses)

(preparation and ligand use of pyrrolylcyclohexyl-thioureas via  
heterocyclization of diaminocyclohexane with diketones followed  
by thioamidation with (isothiocyanato)tetramethylbutyramide)

RN 764650-94-4 HCAPLUS

CN Butanamide, 2-[[[(1R,2R)-2-(2,5-dimethyl-1H-pyrrol-1-  
yl)cyclohexyl]amino]thioxomethyl]amino]-N,N,3,3-tetramethyl-, (2S)- (9CI)  
(CA INDEX NAME)

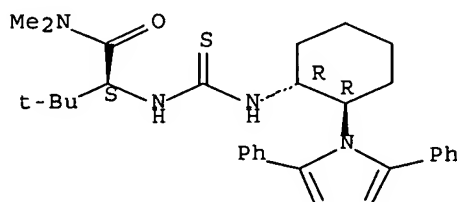
Absolute stereochemistry.



RN 764650-95-5 HCAPLUS

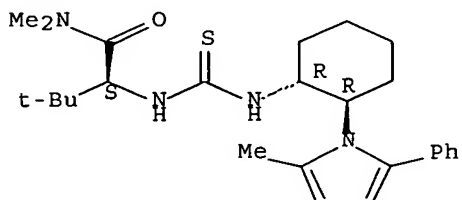
CN Butanamide, 2-[[[(1R,2R)-2-(2,5-diphenyl-1H-pyrrol-1-  
yl)cyclohexyl]amino]thioxomethyl]amino]-N,N,3,3-tetramethyl-, (2S)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



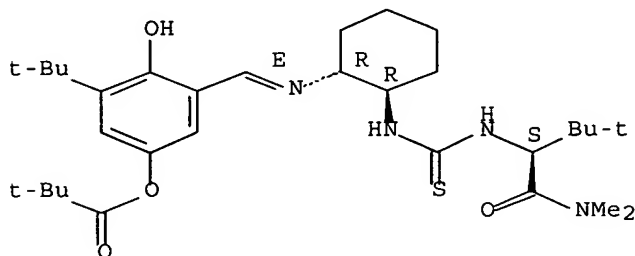
RN 764650-96-6 HCAPLUS  
 CN Butanamide, N,N,3,3-tetramethyl-2-[[[(1R,2R)-2-(2-methyl-5-phenyl-1H-pyrrol-1-yl)cyclohexyl]amino]thioxomethyl]amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 462632-54-8  
 RL: CAT (Catalyst use); USES (Uses)  
 (stereoselective preparation of N-acetyltetrahydro- $\beta$ -carboline via condensation of tryptamine with aldehydes followed by lutidine-mediated thiourea-catalyzed asym. acyl-Pictet-Spengler reaction)  
 RN 462632-54-8 HCAPLUS  
 CN Propanoic acid, 2,2-dimethyl-, 3-[(E)-[[[(1R,2R)-2-[[[(1S)-1-[(dimethylamino)carbonyl]-2,2-dimethylpropyl]amino]thioxomethyl]amino]cyclohexyl]imino]methyl]-5-(1,1-dimethylethyl)-4-hydroxyphenyl ester (9CI) (CA INDEX NAME)

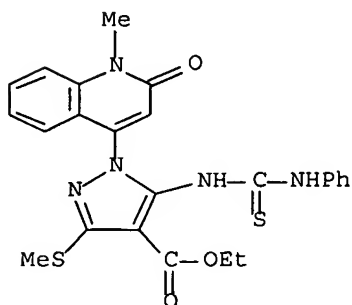
Absolute stereochemistry.  
 Double bond geometry as shown.



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 64 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:618431 HCAPLUS Full-text  
 DOCUMENT NUMBER: 144:311968  
 TITLE: Chemistry of substituted quinolinones. part 8. Synthesis and cyclization reactions of ethyl 5-amino-1-(1-methyl-2-oxoquinolin-4-yl)-3-methylsulfanylpirazole-4-carboxylate  
 AUTHOR(S): Abass, Mohamed

REFERENCE SOURCE: Department of Chemistry, Faculty of Education, Ain Shams University, Cairo, 11711, Egypt  
 SOURCE: International Electronic Conferences on Synthetic Organic Chemistry, 5th, 6th, Sept. 1-30, 2001 and 2002 [and] 7th, 8th, Nov. 1-30, 2003 and 2004 (2004), 1630-1638. Editor(s): Seijas, Julio A. Molecular Diversity Preservation International: Basel, Switz. CODEN: 69GTCO  
 DOCUMENT TYPE: Conference; (computer optical disk)  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 144:311968  
 ED Entered STN: 18 Jul 2005  
 AB The synthesis of the titled amino-ester I is described and its hydrolysis and chloro-acetylation led to the corresponding acid and acetamide, which were cyclized to the pyrazolopyridone derivs. Condensation of I with 2,5-dimethoxytetrahydrofuran afforded the pyrrolylpyrazole derivative, which underwent cyclization by action of PPA to give the corresponding pyrazolopyrrolizine compound Treating I with thiophosgene gave the pyrazolyl isothiocyanate, which added aniline to yield the thiourea derivative, and cyclized to give pyrazolopyrimidinethiones. Condensation of I with formamide furnished pyrazolopyrimidine, while with tri-Et orthoformate produced the ethoxymethyleneaminopyrazole, which condensed with hydrazine to give the aminopyrazoloprimumine derivative Reaction of I with Lawesson's reagent resulted in the corresponding pyrazolothiazaphosphinine. Also the cyclization reaction of the compound I with malononitrile and its mixts. with carbon disulfide, or Ph isothiocyanate, or benzaldehyde are discussed.  
 IT 637757-16-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of N-(methyl(oxo)quinolinyl)phenyl(thioxo)pyrazolopyrimidinone via addition of N-(methyl(oxo)quinolinyl)amino(methylsulfanyl)pyrazolecarb oxylate to thiophosgene followed by addition of aniline and cyclization)  
 RN 637757-16-5 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 1-(1,2-dihydro-1-methyl-2-oxo-4-quinolinyl)-3-(methylthio)-5-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

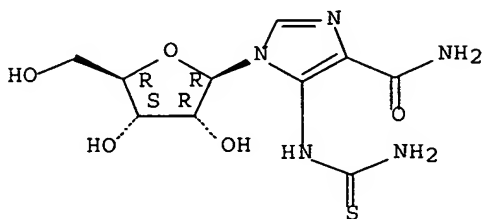


REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 65 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:205972 HCAPLUS Full-text  
 DOCUMENT NUMBER: 142:176578

TITLE: Product class 17: purines  
 AUTHOR(S): Seela, F.; Ramzaeva, N.; Rosemeyer, H.  
 CORPORATE SOURCE: Germany  
 SOURCE: Science of Synthesis (2004), 16, 945-1108  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 ED Entered STN: 15 Mar 2004  
 AB A review. Methods for preparing purines are reviewed including cyclization, ring transformation, and substituent modification. Oxidation of purines is included.  
 IT 133068-54-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and oxidation of purines via cyclization, ring transformation and substituent modification)  
 RN 133068-54-9 HCAPLUS  
 CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-β-D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 762 THERE ARE 762 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L49 ANSWER 66 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:102878 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:375099  
 TITLE: Copper- and palladium-catalyzed intramolecular C-S bond formation: a convenient synthesis of 2-aminobenzothiazoles  
 AUTHOR(S): Joyce, Laurie L.; Evindar, Ghotas; Batey, Robert A.  
 CORPORATE SOURCE: Davenport Research Laboratories, Department of Chemistry, University of Toronto, Toronto, ON, M5S 3H6, Can.  
 SOURCE: Chemical Communications (Cambridge, United Kingdom) (2004), (4), 446-447  
 CODEN: CHCOFS; ISSN: 1359-7345  
 PUBLISHER: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 140:375099  
 ED Entered STN: 09 Feb 2004  
 AB Copper- and palladium-catalyzed intramol. C-S bond formation by cross-coupling of an aryl halide with thiourea was demonstrated for the synthesis of 2-aminobenzothiazoles, e.g., I. The copper-catalyzed protocol was generally

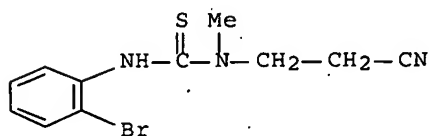
better and more cost effective than the palladium-catalyzed protocol. A one-pot variant combining the synthesis of the thiourea and the cyclization was also demonstrated.

IT 684217-19-4P 684217-36-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of aminobenzothiazoles via intramol. copper- or palladium-catalyzed heterocyclization of N-(haloaryl)thioureas)

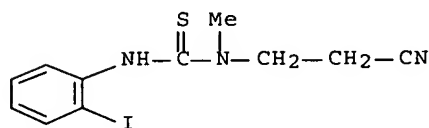
RN 684217-19-4 HCAPLUS

CN Thiourea, N'-(2-bromophenyl)-N-(2-cyanoethyl)-N-methyl- (9CI) (CA INDEX NAME)



RN 684217-36-5 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N'-(2-iodophenyl)-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 28 . THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 67 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:205964 HCAPLUS Full-text

DOCUMENT NUMBER: 142:74474

TITLE: Product class 12: pyrimidines

AUTHOR(S): von Angerer, S.

CORPORATE SOURCE: Germany

SOURCE: Science of Synthesis (2004), 16, 379-572

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 15 Mar 2004

AB A review. Methods for preparing pyrimidines are reviewed including cyclization, ring transformation, aromatization and substituent modification.

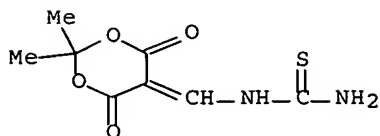
IT 92757-65-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrimidines via cyclization, ring transformation, aromatization and substituent modification)

RN 92757-65-8 HCAPLUS

CN Thiourea, [(2,2-dimethyl-4,6-dioxo-1,3-dioxan-5-ylidene)methyl]- (9CI)  
(CA INDEX NAME)



REFERENCE COUNT: 856 THERE ARE 856 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L49 ANSWER 68 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:547249 HCAPLUS Full-text

DOCUMENT NUMBER: 141:225421

TITLE: Transformation reactions of the Betti base analog  
aminonaphthols

AUTHOR(S): Szatmari, Istvan; Hetenyi, Anasztazia; Lazar, Laszlo;  
Fueloep, Ferenc

CORPORATE SOURCE: Institute of Pharmaceutical Chemistry, University of  
Szeged, Szeged, H-6701, Hung.

SOURCE: Journal of Heterocyclic Chemistry (2004),  
41(3), 367-373

CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER: HeteroCorporation

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:225421

ED Entered STN: 08 Jul 2004

AB By means of simple or domino ring-closure reactions of 1-( $\alpha$ -aminobenzyl)-2-naphthol [Betti's base (I)], 1-aminomethyl-2-naphthol, and 2-( $\alpha$ -aminobenzyl)-1-naphthol [reverse Betti's base (II)] with phosgene, Et benzimidate, 2-carboxybenzaldehyde, levulinic acid, salicylaldehyde/formalin or salicylaldehyde/acetaldehyde, naphth[1,2-e][1,3]oxazine and naphth[2,1-e][1,3]oxazine derivs. were prepared. All of the nitrogen-bridged polycyclic derivs. of I and II containing a number of centers of asymmetry were formed with nearly complete diastereoselectivity. Considerable differences were observed in the ring-closing abilities of the regioisomeric compds.

IT 746677-41-8P 746677-42-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(diastereoselective heterocyclization reactions of

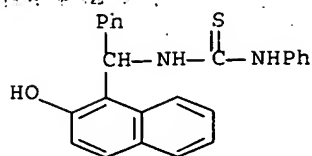
(aminomethyl)naphthols, Betti's bases, with phosgene, benzimidate,

carboxybenzaldehyde, levulinate, and salicylaldehyde)

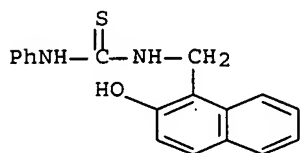
RN 746677-41-8 HCAPLUS

CN Thiourea, N-[(2-hydroxy-1-naphthalenyl)phenylmethyl]-N'-phenyl- (9CI) (CA  
INDEX NAME)



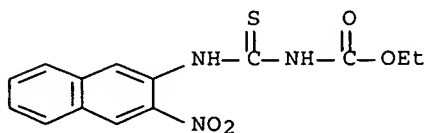


RN 746677-42-9 HCAPLUS  
 CN Thiourea, N-[(2-hydroxy-1-naphthalenyl)methyl]-N'-phenyl- (9CI) (CA INDEX NAME)



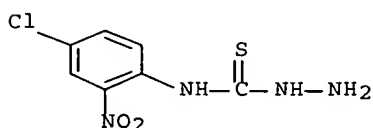
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 69 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:202750 HCAPLUS Full-text  
 DOCUMENT NUMBER: 142:176723  
 TITLE: Product subclass 2: 1,2,4-triazines  
 AUTHOR(S): Lindsley, C. W.; Layton, M. E.  
 CORPORATE SOURCE: Germany  
 SOURCE: Science of Synthesis (2004), 17, 357-447  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 ED Entered STN: 14 Mar 2004  
 AB A review. Methods for preparing 1,2,4-triazines are reviewed including cyclization, ring transformation, aromatization, and substituent modification.  
 IT 90914-03-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of triazines via cyclization, ring transformation, aromatization, and substituent modification)  
 RN 90914-03-7 HCAPLUS  
 CN Carbamic acid, [[(3-nitro-2-naphthalenyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 320 THERE ARE 320 CITED REFERENCES AVAILABLE FOR THIS RECORD: ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 70 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:204625 HCAPLUS Full-text  
DOCUMENT NUMBER: 141:424130  
TITLE: Product class 12: 1,3,4-thiadiazoles  
AUTHOR(S): Collier, S. J.  
CORPORATE SOURCE: Chemical Development, Albany Molecular Research, Inc., Albany, NY, 12212, USA  
SOURCE: Science of Synthesis (2004), 13, 349-414  
CODEN: SSCYJ9  
PUBLISHER: Georg Thieme Verlag  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
ED Entered STN: 15 Mar 2004  
AB A review. Methods for preparing 1,3,4-thiadiazoles are reviewed including cyclization, ring transformation, aromatization, and substituent modification.  
IT 68372-12-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of 1,3,4-thiadiazoles via cyclization, ring transformation, aromatization, and substituent modification)  
RN 68372-12-3 HCAPLUS  
CN Hydrazinecarbothioamide, N-(4-chloro-2-nitrophenyl)- (9CI) (CA INDEX NAME)



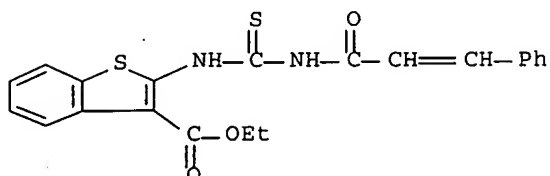
REFERENCE COUNT: 471 THERE ARE 471 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 71 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:550010 HCAPLUS Full-text  
DOCUMENT NUMBER: 144:412440  
TITLE: Behavior of cinnamoyl-isothiocyanate towards carbon, nitrogen and oxygen reagents  
AUTHOR(S): Ouf, N. H.; El-Bahaie, S.; Assy, M. G.; El-Shaikh, E.  
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Zagazig University, Zagazig, Egypt  
SOURCE: Bollettino Chimico Farmaceutico (2004), 143(8), 291-297  
CODEN: BCFAAI; ISSN: 0006-6648  
PUBLISHER: Societa Editoriale Farmaceutica  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 144:412440  
ED Entered STN: 26 Jun 2005  
AB Cyclization of cinnamoyl isothiocyanate with nucleophilic reagents either spontaneously or with added a reagents is reported. The biol. activities of some of these compds. against variety of bacteria were also reported.  
IT 524956-92-1P

RL: BSU (Biological study, unclassified); RCT (Reactant); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation);  
RACT (Reactant or reagent)  
 (preparation and antibacterial activity of products from cyclization  
 of cinnamoyl-isothiocyanate with various nucleophilic  
 reagents)

RN 524956-92-1 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(1-oxo-3-phenyl-2-propenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

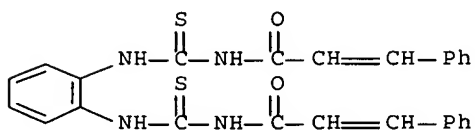


IT 499139-81-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and antibacterial activity of products from cyclization  
 of cinnamoyl-isothiocyanate with various nucleophilic  
 reagents)

RN 499139-81-0 HCAPLUS

CN 2-Propenamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis[3-phenyl-  
 (9CI) (CA INDEX NAME)



L49 ANSWER 72 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:204621 HCAPLUS Full-text

DOCUMENT NUMBER: 142:6446

TITLE: Product class 8: 1,3,4-oxadiazoles

AUTHOR(S): Weaver, G. W.

CORPORATE SOURCE: Dept. of Chemistry, Loughborough University,  
 Loughborough, LE11 3TU, UK

SOURCE: Science of Synthesis (2004), 13, 219-251

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 15 Mar 2004

AB A review. Methods for preparing 1,3,4-oxadiazoles are reviewed including  
 cyclization, ring transformation, and substituent modifications.

IT 796850-01-6D, resin bound 796850-02-7D, resin bound

796850-03-8D, resin bound 796850-04-9D, resin bound

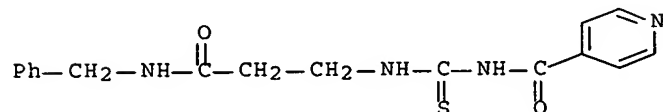
796850-05-0D, resin bound 796850-06-1D, resin bound

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 1,3,4-oxadiazoles via cyclization, ring transformation, and substituent modifications)

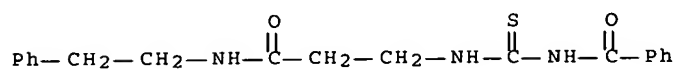
RN 796850-01-6 HCAPLUS

CN 4-Pyridinecarboxamide, N-[[[3-oxo-3-[(phenylmethyl)amino]propyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



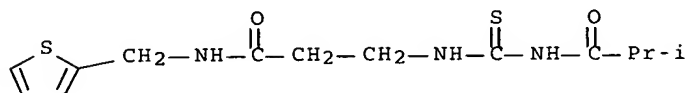
RN 796850-02-7 HCAPLUS

CN Benzamide, N-[[[3-oxo-3-[(2-phenylethyl)amino]propyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



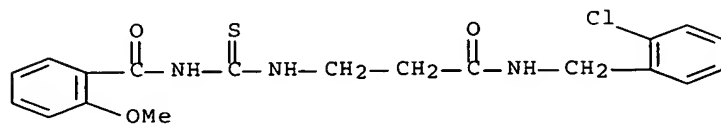
RN 796850-03-8 HCAPLUS

CN Propanamide, 2-methyl-N-[[[3-oxo-3-[(2-thienylmethyl)amino]propyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



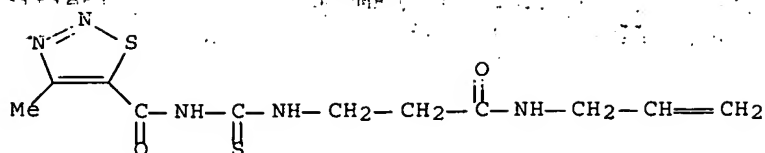
RN 796850-04-9 HCAPLUS

CN Benzamide, N-[[[3-[[[(2-chlorophenyl)methyl]amino]-3-oxopropyl]amino]thioxomethyl]-2-methoxy- (9CI) (CA INDEX NAME)

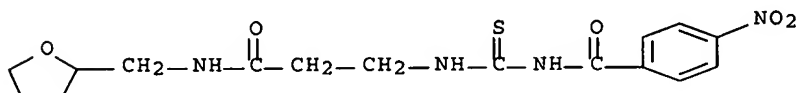


RN 796850-05-0 HCAPLUS

CN 1,2,3-Thiadiazole-5-carboxamide, 4-methyl-N-[[[3-oxo-3-(2-propenylamino)propyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

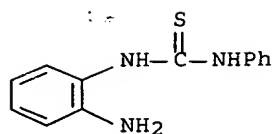


RN 796850-06-1 HCAPLUS  
 CN Benzamide, 4-nitro-N-[[[3-oxo-3-[[[tetrahydro-2-furanyl)methyl]amino]propyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

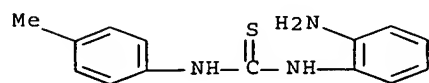


REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

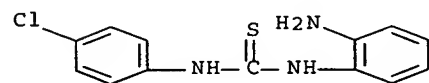
L49 ANSWER 73 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:610768 HCAPLUS Full-text  
 DOCUMENT NUMBER: 141:379868  
 TITLE: Synthesis and antimicrobial activity of some novel 1,2,4-dithiazolidines  
 AUTHOR(S): Deohate, Pradip P.; Berad, B. N.  
 CORPORATE SOURCE: Post Graduate Department of Chemistry, Shri Shivaji Science College, Amravati, 444 603, India  
 SOURCE: Oriental Journal of Chemistry (2004), 20(1), 189-192  
 CODEN: OJCHEG; ISSN: 0970-020X  
 PUBLISHER: Oriental Scientific Publishing Co.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 141:379868  
 ED Entered STN: 30 Jul 2004  
 AB 3-(2-Aminophenylimino)-4-aryl/alkyl-5-phenylimino-1,2,4-dithiazolidines were obtained by the basification of 3-(2-aminophenylimino)-4-aryl/alkyl-5-phenylimino-1,2,4-dithiazolidine hydrochlorides. The latter were synthesized by the interaction of N-phenyl-S-chloroisothiocarbamoyl chloride and 1-aryl/alkyl-3-(2-aminophenyl)thioureas, which were prepared initially by the condensation of aryl/alkyl isothiocyanates and o-phenylenediamine. The title compds. were assayed for their antimicrobial activity against Gram-pos. as well as Gram-neg. microorganisms such as E. coli, S. aureus, S. typhi, B. subtilis, A. aerogenes and A. niger.  
 IT 21578-46-1P 412309-12-7P 777097-91-3P  
844639-26-5P 844639-27-6P 844639-28-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and antimicrobial activity of dithiazolidines)  
 RN 21578-46-1 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



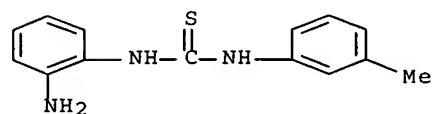
RN 412309-12-7 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-(4-methylphenyl)- (9CI) (CA INDEX NAME)



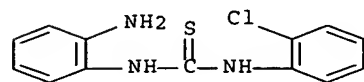
RN 777097-91-3 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



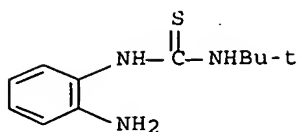
RN 844639-26-5 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-(3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 844639-27-6 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-(2-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 844639-28-7 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

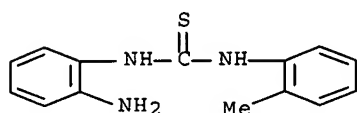


IT 50717-64-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and cyclization with chloroisothiocarbamoyl chloride)

RN 50717-64-1 HCAPLUS

CN Thiourea, N-(2-aminophenyl)-N'-(2-methylphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 74 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:415597 HCAPLUS Full-text

DOCUMENT NUMBER: 144:192179

TITLE: Synthesis of 4-substituted 3-[(1-methylpyrrol-2-yl)methyl]-1,2,4-triazoline-5-thiones

AUTHOR(S): Pitucha, M.; Wujec, M.; Dobosz, M.

CORPORATE SOURCE: Department of Organic Chemistry, Faculty of Pharmacy, Medical University, Lublin, 20-081, Pol.

SOURCE: Annales Universitatis Mariae Curie-Sklodowska, Sectio AA: Chemia (2004), 59, 144-153

CODEN: AUMCD7; ISSN: 0137-6853

PUBLISHER: Wydawnictwo Uniwersytetu Marii Curie-Sklodowskiej

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:192179

ED Entered STN: 16 May 2005

AB Reaction of 1-methylpyrrole-2-acetic acid hydrazide with RNCS gave thiosemicarbazides I [R = Et, cyclohexyl, (un)substituted Ph, benzyl, CH<sub>2</sub>COOEt], which were cyclized by 2% NaOH to give title compds. II (same R).

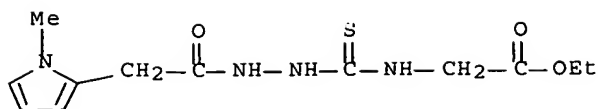
IT 875329-78-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

([(methylpyrrolyl)methyl]triazolinethiones via heterocyclization of [(methylpyrrolyl)acetyl]thiosemicarbazides)

RN 875329-78-5 HCAPLUS

CN 1H-Pyrrole-2-acetic acid, 1-methyl-, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 75 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:610811 HCAPLUS Full-text

DOCUMENT NUMBER: 141:395505

TITLE: Condensed thienopyrimidines. Part 19. Study of the heterocyclization of 2-hydrazino-6,6-dimethyl-5,6-dihydro-8H-pyranothieno[2,3-d]pyrimidin-4-one

AUTHOR(S): Oganisyan, A. Sh.; Noravyan, A. S.; Karapetyan, A. A.; Aleksanyan, M. S.; Struchkov, Yu. T.

CORPORATE SOURCE: A. L. Mndzhoyan Institute of Fine Organic Chemistry, National Academy of Sciences, Yerevan, 375014, Armenia

SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2004), 40(1), 79-83

CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Kluwer Academic/Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:395505

ED Entered STN: 30 Jul 2004

AB Novel condensed pyrano[4',3':4,5]thieno[3,2-e]triazolo[3,4-b]pyrimidine derivs. were synthesized from 2-amino-3-carbethoxy-5,5-dimethyl-4,5-dihydro-7H-thieno[2,3-c]pyran. The structures were confirmed by x-ray diffraction anal. of 1,7,7-trimethyl-6,7-dihydro-9H-pyrano[4',3':4,5]thieno[3,2-e]triazolo[3,4-b]pyrimidin-5-one [rhombic, P21, a 20.953(4), b 14.253(3), c 8.898(1) Å, V 2657.4(9) Å<sup>3</sup>, Z 8].

IT 314042-00-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and crystal structure of condensed

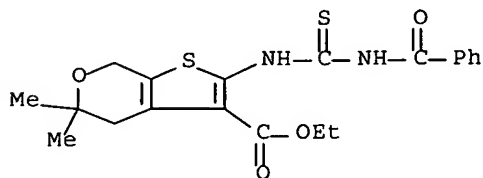
pyrano[4',3':4,5]thieno[3,2-

e]triazolo[3,4-b]pyrimidine derivs. via heterocyclization of

2-hydrazino-6,6-dimethyl-5,6-dihydro-8H-pyranothieno[2,3-d]pyrimidin-4-one)

RN 314042-00-7 HCAPLUS

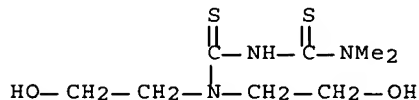
CN 5H-Thieno[2,3-c]pyran-3-carboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-4,7-dihydro-5,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

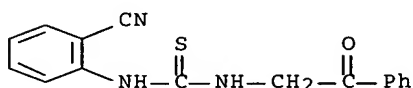
L49 ANSWER 76 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:204615 HCAPLUS Full-text  
DOCUMENT NUMBER: 141:424127  
TITLE: Product class 2: 1,2,4-dioxazoles, 1,2,4-oxathiazoles, and 1,2,4-dithiazoles  
AUTHOR(S): Argyropoulos, N. G.  
CORPORATE SOURCE: Lab. of Organic Chemistry Dept. of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, 540 06, Greece  
SOURCE: Science of Synthesis (2004), 13, 29-71  
CODEN: SSCYJ9  
PUBLISHER: Georg Thieme Verlag  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
ED Entered STN: 15 Mar 2004  
AB A review. Methods for preparing 1,2,4-dioxazoles, 1,2,4-oxathiazoles, and 1,2,4-dithiazoles are reviewed including cyclization, ring transformation, aromatization, and substituent modification techniques.  
IT 33812-12-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of dioxazoles, oxathiazoles, and dithiazoles via cyclization, ring transformation, aromatization, and substituent modification)  
RN 33812-12-3 HCAPLUS  
CN Thioimidodicarbonic diamide ([ (H<sub>2</sub>N)C(S)]<sub>2</sub>NH), N,N-bis(2-hydroxyethyl)-N',N'-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 125 THERE ARE 125 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 77 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:537114 HCAPLUS Full-text  
DOCUMENT NUMBER: 139:261243  
TITLE: Sequential cyclizations of 2-isothiocyanatobenzonitrile and 2-isocyanatobenzonitrile with  $\alpha$ -aminoketones  
AUTHOR(S): Langer, Peter; Bodtke, Anja  
CORPORATE SOURCE: Institut für Chemie und Biochemie der Ernst-Moritz-Arndt-Universität Greifswald, Greifswald, 17487, Germany  
SOURCE: Tetrahedron Letters (2003), 44(32), 5965-5967  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 139:261243  
 ED Entered STN: 14 Jul 2003  
 AB Pharmacol. relevant 5-thioxo-6H-imidazo[1,2-c]quinazolines and 5-oxo-6H-imidazo[1,2-c]quinazolines were prepared by sequential reactions of  $\alpha$ -aminoketones with 2-isothiocyanatobenzonitrile and 2-isocyanatobenzonitrile, resp. For example, reaction of 2- isothiocyanatobenzonitrile with  $\alpha$ -aminoacetophenone in Et<sub>3</sub>N in aqueous CH<sub>2</sub>Cl<sub>2</sub> at 20° for 20 m gave 90% condensation product, cyclization of which in refluxing aqueous CH<sub>2</sub>Cl<sub>2</sub> gave 88% quinazoline derivative, cyclization of which in refluxing ethanol gave 85% 5-thioxo-6H- imidazo[1,2-c]quinazoline.  
 IT 603069-33-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (sequential cyclizations of 2-isothiocyanatobenzonitrile and 2-isocyanatobenzonitrile with  $\alpha$ -aminoketones)  
 RN 603069-33-6 HCAPLUS  
 CN Thiourea, N-(2-cyanophenyl)-N'-(2-oxo-2-phenylethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: . 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 78 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:651902 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:27806  
 TITLE: Synthetic access to 2-amido-5-aryl-8-methoxy-triazolopyridine and 2-amido-5-morpholino-8-methoxy-triazolopyridine derivatives as potential inhibitors of the adenosine receptor subtypes  
 AUTHOR(S): Nettekoven, Matthias; Puellmann, Bernd; Schmitt, Sebastien  
 CORPORATE SOURCE: Pharmaceutical Research Basel, Discovery Chemistry, Lead Generation, F. Hoffmann-LaRoche Ltd., Basel, 4070, Switz.  
 SOURCE: Synthesis (2003), (11), 1649-1652  
 CODEN: SYNTBF; ISSN: 0039-7881  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 140:27806  
 ED Entered STN: 21 Aug 2003  
 AB Two versatile and complementary synthetic strategies towards 2-amido-5-aryl-8-methoxy-triazolopyridine derivs. and 2-amido-5-morpholino- 8-methoxy-triazolopyridine derivs. in five steps are presented. The key step in each synthetic route can be constituted as the formation of the resp. triazolopyridine derivative precursors in 78% and 57% yield, resp., through an immediately formed 4H-[1,2,4]oxadiazol-5-one. The final Suzuki coupling/amidation allowed the straightforward access to the desired triazolopyridine derivs. which have not been described previously. Notably,

these triazolopyridine-scaffold bears three vectors of diversity which offer maximum flexibility in design and combinatorial synthesis of mols. with a potentially useful inhibitory activity towards adenosine receptor subtypes.

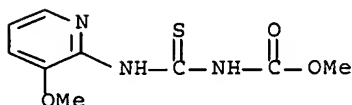
IT 634195-23-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(cyclization of; multistep preparation of amidoarylmethoxytriazolopyridine and amidomorpholinomethoxytriazolopyridine derivs. as potential inhibitors of adenosine receptor subtypes using Suzuki coupling/amidation reactions)

RN 634195-23-6 HCAPLUS

CN Carbamic acid, [[[3-methoxy-2-pyridinyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



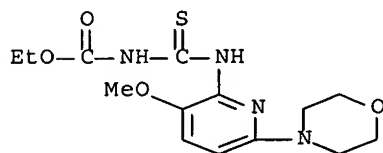
IT 634195-55-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(multistep preparation of amidoarylmethoxytriazolopyridine and amidomorpholinomethoxytriazolopyridine derivs. as potential inhibitors of adenosine receptor subtypes using Suzuki coupling/amidation reactions)

RN 634195-55-4 HCAPLUS

CN Carbamic acid, [[[3-methoxy-6-(4-morpholinyl)-2-pyridinyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 79 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:524835 HCAPLUS Full-text

DOCUMENT NUMBER: 140:59611

TITLE: Chemistry of Substituted Quinolinones. Part 8. Synthesis and Cyclization Reactions of Ethyl 5-Amino-1-(1-methyl-2-oxoquinolin-4-yl)-3-methylsulfanylpirazole-4-carboxylate

AUTHOR(S): Abass, Mohamed

CORPORATE SOURCE: Ain Shams University, Cairo, Egypt

SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (2003), 178(7), 1413-1432  
CODEN: PSSLEC; ISSN: 1042-6507

PUBLISHER: Taylor & Francis, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 140:59611

ED Entered STN: 10 Jul 2003

AB The synthesis of the titled amino-ester I [R1 = Et; R2 = NH2(II)] is described and its hydrolysis and chloroacetylation led to the acid I (R1 = H; R2 = NH2) and acetamide I (R1 = Et; R2 = NHCOCH2Cl), which were cyclized to the pyrazolopyridones III (R = H) and III (R = Cl), resp. Condensation of II with 2,5-dimethoxytetrahydrofuran afforded the pyrrolylpyrazole I (R1 = Et; R2 = pyrrolo), which underwent cyclization by action of PPA to give pyrazolopyrrolizine IV. Treating II with thiophosgene gave the pyrazolyl isothiocyanate I (R1 = Et; R2 = NCS), which added aniline to yield the thiourea derivative I (R1 = Et; R2 = NHCSNHPh), and cyclized to give pyrazolopyrimidinethiones V (R = H, NH2, Ph). Condensation of II with formamide furnished pyrazolopyrimidine VI (R = H), while with tri-Et orthoformate produced the ethoxymethyleneaminopyrazole I (R1 = Et; R2 = N:CHOEt), which condensed with hydrazine to give the aminopyrazoloprimumine VI (R = NH2). Reaction of II with Lawesson's reagent resulted in the pyrazolothiazaphosphinine VII. Also the cyclization reaction of the compound II with malononitrile and its mixts. with carbon disulfide, Ph isothiocyanate, or benzaldehyde led to the formation of a variety of polyfunctional substituted pyrazolopyrimidines, pyrazolothiazine and pyrazolopyridine.

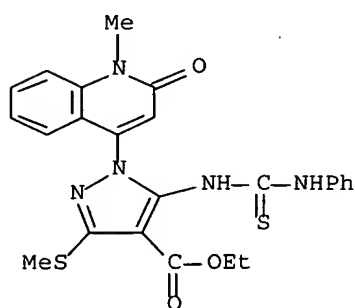
IT 637757-16-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization reactions of Et aminomethyloxoquinolinyl methylsulfanylpyrazole carboxylate)

RN 637757-16-5 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(1,2-dihydro-1-methyl-2-oxo-4-quinolinyl)-3-(methylthio)-5-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI)  
(CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 80 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:91022 HCAPLUS Full-text

DOCUMENT NUMBER: 138:337658

TITLE: Promoting effects of the hydroxymethyl group on the fluorescent signaling recognition of anions by thioureas

AUTHOR(S): Qian, Xuhong; Liu, Fengyu

CORPORATE SOURCE: Institute of Pesticides and Pharmarceuticals, Shanghai

Key Lab. of Chemical Biology, East China University of  
Science and Technology, Shanghai, 200237, Peop. Rep.  
China

SOURCE: Tetrahedron Letters (2003), 44(4), 795-799  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 138:337658

ED Entered STN: 06 Feb 2003

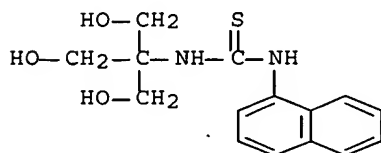
AB A series of novel fluorescent naphthylthioureas with hydroxymethyl groups 1-4 [1-C10H7NHC(:S)NHR, with R = resp. C(CH2OH)3, C(CH2OH)2Et, C(CH2OH)Me2, and C(CH2OH)H2] was designed and synthesized. Upon complexation with anions, 1-4 showed strong fluorescence enhancements in the order: 1>2>3≈4, which is consistent with the number of hydroxymethyl groups contained in their structures. Hydroxymethyl groups have an important influence on the compds.' trans-trans or trans-cis conformations, and their action to promote the fluorescence signaling recognition of the thioureas for anions might be caused by their preorganizing the intramol. protons of the receptor in favor of sites of the trans-trans conformation ready for hydrogen bond formation with the anions. Thioureas 1 to 4 had favorable selectivities for certain anions, which relied on the net charge and Bronsted basicity of the anions.

IT 516471-27-5P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent) (receptor with strongest fluorescence enhancement, cyclization; promoting effects of the hydroxymethyl group on the fluorescent signaling recognition of anions by thioureas)

RN 516471-27-5 HCAPLUS

CN Thiourea, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)

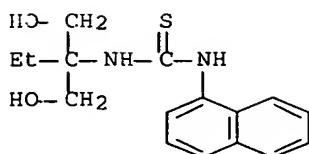


IT 516471-28-6P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent) (receptor with weaker fluorescence enhancement, cyclization; promoting effects of the hydroxymethyl group on the fluorescent signaling recognition of anions by thioureas)

RN 516471-28-6 HCAPLUS

CN Thiourea, N-[1,1-bis(hydroxymethyl)propyl]-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)

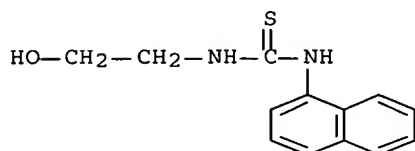


IT 52266-64-5P 516471-29-7P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent) (receptor with weakest fluorescence enhancement, cyclization; promoting effects of the hydroxymethyl group on the fluorescent signaling recognition of anions by thioureas)

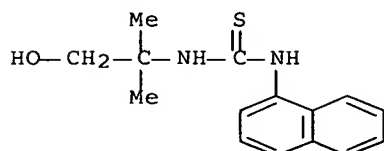
RN 52266-64-5 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



RN 516471-29-7 HCAPLUS

CN Thiourea, N-(2-hydroxy-1,1-dimethylethyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 81 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:207567 HCAPLUS Full-text

DOCUMENT NUMBER: 142:58697

TITLE: New heterocycles having a double character, as antimicrobial and surface active agents. Part 1: nonionic compounds from fatty acid isothiocyanate

AUTHOR(S): Amine, M. S.; Eissa, A. M. F.; El-Sawy, A. A.; Shaaban, A. F.; El-Sayed, R.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Benha University, Benha, Egypt

SOURCE: Olaj, Szappan, Kozmetika (2003), 52(6), 246-250

PUBLISHER: METE  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 142:58697

ED Entered STN: 16 Mar 2004

AB Fatty acid isothiocyanates were used as starting material to prepare some important heterocycles, such as triazoles, oxazoles, thiazoles, benzoxazoles and quinazolines by treatment with different types of nucleophiles. The produced compds. were subjected to reaction with propylene oxide in different amts. (3, 5 and 7 mol) to produce a novel group of nonionic compds. having a double function as antimicrobial and surface active agents which can serve in the manufacture of drugs, cosmetics, pesticides or can be used as antibacterial and/or antifungal agents. The phys. properties of surface and interfacial tension, cloud point, foaming power, wetting time, emulsification power and the critical micelle concentration (CMC) were determined, antimicrobial activity and biodegradability were also determined

IT 807349-65-1P 807349-67-3P 807349-69-5P

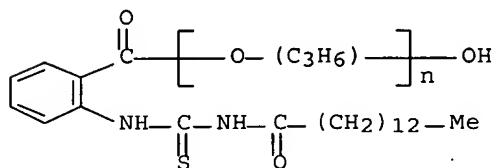
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(preparation, antimicrobial activity, and surface properties of heterocyclic

polyoxypropylenes via addition of nucleophiles to fatty acyl isothiocyanates followed by heterocyclization and polymerization with propylene oxide)

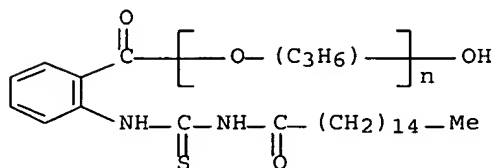
RN 807349-65-1 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[2-[[[(1-oxotetradecyl)amino]thioxomethyl]amino]benzoyl]- $\omega$ -hydroxy- (9CI)  
(CA INDEX NAME)



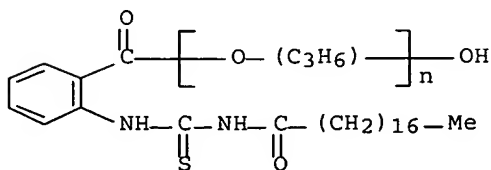
RN 807349-67-3 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[2-[[[(1-oxohexadecyl)amino]thioxomethyl]amino]benzoyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 807349-69-5 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -[2-[[[(1-oxooctadecyl)amino]thioxomethyl]amino]benzoyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



IT 805323-87-9P 805323-88-0P 805323-89-1P

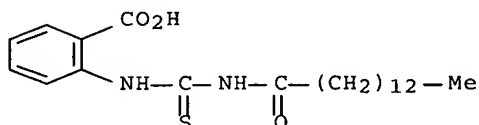
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, antimicrobial activity, and surface properties of heterocyclic

polyoxypropylenes via addition of nucleophiles to fatty acyl isothiocyanates followed by heterocyclization and polymerization with propylene oxide)

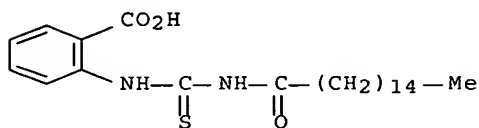
RN 805323-87-9 HCAPLUS

CN Benzoic acid, 2-[[[(1-oxotetradecyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



RN 805323-88-0 HCAPLUS

CN Benzoic acid, 2-[[[(1-oxohexadecyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



RN 805323-89-1 HCAPLUS

CN Benzoic acid, 2-[[[(1-oxooctadecyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)





REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 83 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:474090 HCAPLUS Full-text

DOCUMENT NUMBER: 139:395862

TITLE: Studies on oxadiazoles: Part XVII: Synthesis and biological evaluation of some novel 2-arylamino-5-[2(1H)-quinoxalinon-1'-yl-methyl]-1,3,4-oxadiazoles

AUTHOR(S): Trivedi, S. D.; Kubavat, H. T.; Parekh, H. H.

CORPORATE SOURCE: Department of Chemistry, Saurashtra University, Rajkot, 360 005, India

SOURCE: Oriental Journal of Chemistry (2003), 19(1), 153-156

CODEN: OJCHEG; ISSN: 0970-020X

PUBLISHER: Oriental Scientific Publishing Co.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:395862

ED Entered STN: 22 Jun 2003

AB The title compds. have been synthesized by the condensation of 2-(1H)-quinoxalinon-1-yl-acetyl hydrazine with aromatic acids in presence of POCl<sub>3</sub>. The constitution of all the products have been deduced by elemental analyses and spectral study. The synthesized products have been screened for their in vitro antimicrobial screening.

IT 626246-03-5P

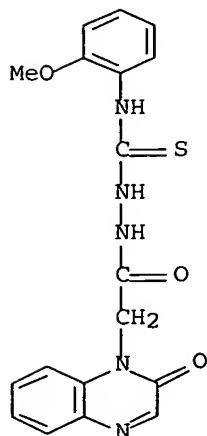
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of quinoxaline oxadiazoles via condensation of corresponding quinoxalinonylacetyl hydrazines with aromatic isothiocyanates followed by cyclization and antimicrobial screening of products)

RN 626246-03-5 HCAPLUS

CN 1(2H)-Quinoxalineacetic acid, 2-oxo-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 84 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:840718 HCAPLUS Full-text

DOCUMENT NUMBER: 141:23459

TITLE: Ethyl esters and anilides of aryloxyethylamino(thio)-4-methylthiazole-5-carboxylic acids

AUTHOR(S): Dovlatyan, V. V.; Avetisyan, F. V.; Dzhivanshiryan, T. L.

CORPORATE SOURCE: Armenia

SOURCE: Zekuytsner - Hayastani Gitut'yunneri Azgayin Akademia (2003), 103(2), 131-138

CODEN: DNAAFT; ISSN: 1026-6496

PUBLISHER: NAN Respubliki Armenii

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 141:23459

ED Entered STN: 28 Oct 2003

AB Title compds. I [Ar = Ph, C<sub>6</sub>H<sub>4</sub>Me-2, -3, -4, CH<sub>2</sub>Ph, C<sub>6</sub>H<sub>4</sub>Br-4; X' = OEt, NHPH] were prepared from ArOCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub> via reaction with PhC(:O)NCS, debenzoylation with NaOH, and cyclization with MeC(:O)CHClCOX' (X' = OEt, NHPH). Title compds. II [Ar' = Ph, C<sub>6</sub>H<sub>3</sub>Cl<sub>2</sub>-3,4, C<sub>6</sub>H<sub>4</sub>Br-4; X' = OEt, NHPH] were prepared from Ar'OCH<sub>2</sub>CH<sub>2</sub>Br via reaction with NH<sub>2</sub>CS<sub>2</sub>-NH<sub>4</sub><sup>+</sup> and cyclization with MeC(:O)CHClCOX' (X' = OEt, NHPH).

IT 6594-37-2P, 1-(2-Phenoxyethyl)thiourea 6594-55-4P,

1-[2-(Benzyloxy)ethyl]thiourea 698348-72-0P,

1-[2-(2-Methylphenoxy)ethyl]thiourea 698348-85-5P,

1-[2-(3-Methylphenoxy)ethyl]thiourea 698348-89-9P,

1-[2-(4-Methylphenoxy)ethyl]thiourea 698348-92-4P,

1-[2-(4-Bromophenoxy)ethyl]thiourea

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with chloroacetoacetic acid ester

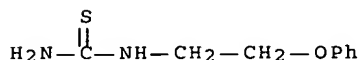
or amide; preparation of Et esters and anilides of (2-aryloxyethyl)amino-

or

-thio-4-methylthiazole-5-carboxylic acids)

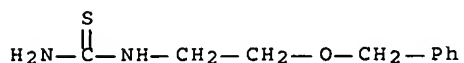
RN 6594-37-2 HCAPLUS

CN Thiourea, (2-phenoxyethyl)- (9CI) (CA INDEX NAME)



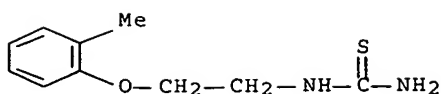
RN 6594-55-4 HCAPLUS

CN Thiourea, [2-(phenylmethoxy)ethyl]- (9CI) (CA INDEX NAME)

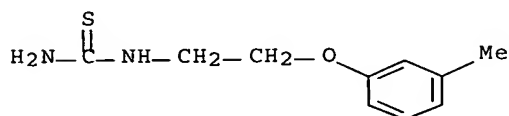


RN 698348-72-0 HCAPLUS

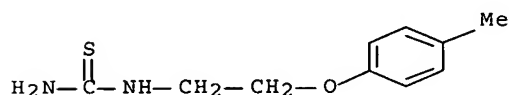
CN Thiourea, [2-(2-methylphenoxy)ethyl]- (9CI) (CA INDEX NAME)



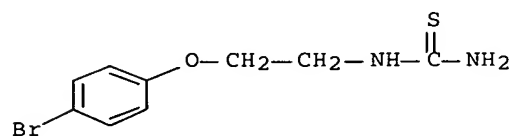
RN 698348-85-5 HCAPLUS  
CN Thiourea, [2-(3-methylphenoxy)ethyl]- (9CI) (CA INDEX NAME)



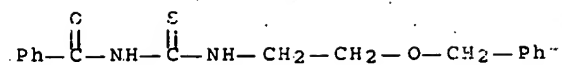
RN 698348-89-9 HCAPLUS  
CN Thiourea, [2-(4-methylphenoxy)ethyl]- (9CI) (CA INDEX NAME)



RN 698348-92-4 HCAPLUS  
CN Thiourea, [2-(4-bromophenoxy)ethyl]- (9CI) (CA INDEX NAME)

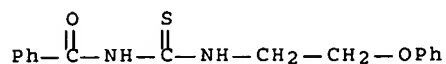


IT 106670-23-9P 698348-61-7P, 1-Benzoyl-2-(2-phenoxyethyl)thiourea 698348-71-9P 698348-83-3P  
698348-88-8P 698348-91-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and debenzoylation of; preparation of Et esters and anilides  
of (2-aryloxyethyl)amino- or -thio-4-methylthiazole-5-carboxylic acids)  
RN 106670-23-9 HCAPLUS  
CN Benzamide, N-[[[2-(phenylmethoxy)ethyl]amino]thioxomethyl]- (9CI) (CA  
INDEX NAME)



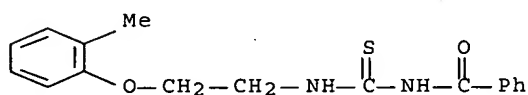
RN 698348-61-7 HCAPLUS

CN Benzamide, N-[[[2-(phenoxyethyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



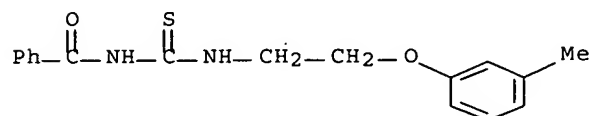
RN 698348-71-9 HCAPLUS

CN Benzamide, N-[[[2-(2-methylphenoxy)ethyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



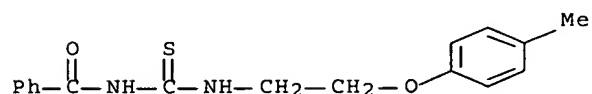
RN 698348-83-3 HCAPLUS

CN Benzamide, N-[[[2-(3-methylphenoxy)ethyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



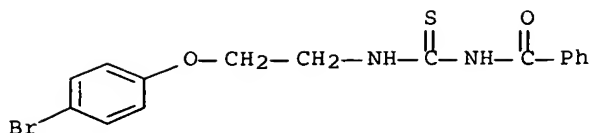
RN 698348-88-8 HCAPLUS

CN Benzamide, N-[[[2-(4-methylphenoxy)ethyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

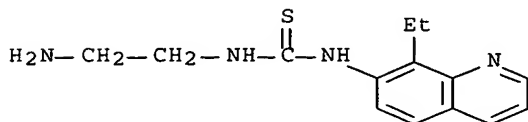


RN 698348-91-3 HCAPLUS

CN Benzamide, N-[[[2-(4-bromophenoxy)ethyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



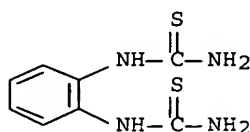
L49 ANSWER 85 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:577687 HCAPLUS Full-text  
 DOCUMENT NUMBER: 138:24627  
 TITLE: Preparation of 8-alkyl 7-(2-imidazolinylamino)quinolines via palladium mediated alkylations  
 AUTHOR(S): Nikolaides, Nick; Bogdan, Sophie E.; Szalma, James S.  
 CORPORATE SOURCE: Procter and Gamble Pharmaceuticals, Mason, OH, 45040, USA  
 SOURCE: Synthetic Communications (2002), 32(13), 2027-2033  
 CODEN: SYNCAV; ISSN: 0039-7911  
 PUBLISHER: Marcel Dekker, Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 138:24627  
 ED Entered STN: 04 Aug 2002  
 AB A convenient preparation of 8-alkyl substituted 7-(2-imidazolinylamino)quinolines from the corresponding 8-trifluoromethanesulfonates, using Pd cross-coupling reactions is described.  
 IT 477953-18-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 477953-18-7 HCAPLUS  
 CN Thiourea, N-(2-aminoethyl)-N'-(8-ethyl-7-quinolinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

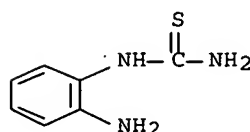
L49 ANSWER 86 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:835625 HCAPLUS Full-text  
 DOCUMENT NUMBER: 139:52895  
 TITLE: Product class 18: benzothiazoles and related compounds  
 AUTHOR(S): Ulrich, H.  
 CORPORATE SOURCE: Guilford, CT, 06437, USA  
 SOURCE: Science of Synthesis (2002), 11, 835-912  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 ED Entered STN: 04 Nov 2002  
 AB A review. Methods for preparing benzothiazoles and related annulated thiazoles are reviewed. Preparative methods include ring-closure reactions, ring transformations, aromatization and synthesis by substituent modification.  
 IT 50589-89-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of benzothiazole and related compound via cyclization, ring transformations, aromatization and substituent modification)  
 RN 50589-89-4 HCAPLUS  
 CN Thiourea, N,N''-1,2-phenylenebis- (9CI) (CA INDEX NAME)

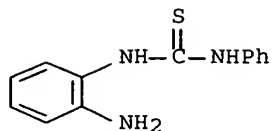


REFERENCE COUNT: 347 THERE ARE 347 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

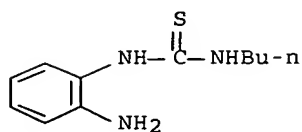
L49 ANSWER 87 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:855869 HCAPLUS Full-text  
 DOCUMENT NUMBER: 139:179987  
 TITLE: Product class 4: benzimidazoles  
 AUTHOR(S): Grimmett, M. R.  
 CORPORATE SOURCE: Organic Chemistry, Dept. of Chemistry, University of Otago, Dunedin, N. Z.  
 SOURCE: Science of Synthesis (2002), 12, 529-612  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 ED Entered STN: 12 Nov 2002  
 AB A review. Methods for preparing benzimidazoles are reviewed covering annulations to arenes, ring transformations, and aromatization. Modification of benzimidazole substituents are also included.  
 IT 3394-09-0 21578-46-1 22019-45-0  
50596-93-5 50717-64-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of benzimidazoles via cyclization, ring transformations, aromatization and modification of substituents)  
 RN 3394-09-0 HCAPLUS  
 CN Thiourea, (2-aminophenyl)- (9CI) (CA INDEX NAME)



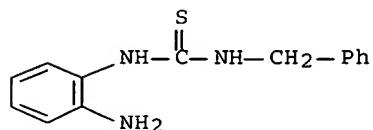
RN 21578-46-1 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



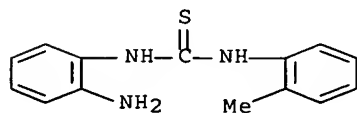
RN 22019-45-0 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-butyl- (9CI) (CA INDEX NAME)



RN 50596-93-5 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 50717-64-1 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-(2-methylphenyl)- (9CI) (CA INDEX NAME)

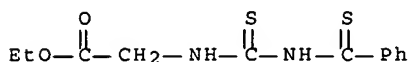


REFERENCE COUNT: 497 THERE ARE 497 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

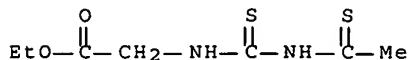
L49 ANSWER 88 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2002:623560 HCAPLUS Full-text



DOCUMENT NUMBER: 138:24793 DOCUMENT NUMBER:  
 TITLE: Synthesis of arsenical adduct: Synthesis and transformation of dimercapto compound to arsenical adduct  
 AUTHOR(S): Chowdhury, A. Z. M. Shaifullah; Shibata, Yasuyuki; Morita, Masatoshi; Kaya, Kunimitsu  
 CORPORATE SOURCE: Environmental Chemistry Division, National Institute for Environmental Studies, Ibaraki, 305-0053, Japan  
 SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (2002), 177(2), 497-509  
 CODEN: PSSLEC; ISSN: 1042-6507  
 PUBLISHER: Taylor & Francis Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 138:24793  
 ED Entered STN: 19 Aug 2002  
 AB Several types of 1,3,2-dioxarsa- and 1,3,2-dithiarsa-heterocyclic compds. were prepared Reaction of isothiocyanates R<sub>3</sub>NCS (R<sub>3</sub> = Me, Ph, CO<sub>2</sub>Et, CH<sub>2</sub>CO<sub>2</sub>Et) with R<sub>4</sub>C(S)NH<sub>2</sub> in presence of pyridine afforded dithioureaides R<sub>4</sub>C(S)NHC(S)NHR<sub>3</sub> (R<sub>3</sub>, R<sub>4</sub> = Me, Ph, 4a; Ph, Me, 4b; CO<sub>2</sub>Et, Ph, 4c; CH<sub>2</sub>CO<sub>2</sub>Et, Ph, 7a; CH<sub>2</sub>CO<sub>2</sub>Et, Me, 7b) in good yield. Adipoin reacts with phenylarsine oxide and triphenylarsine to give the bicyclic 1,3,2-dioxarsole derivs. 1,3-. Propanedithiol gives with PhAsO 2-phenyl-1,3,2-dithiarsane. A variety of 1,3,5,2-dithiazarsenine derivs. were obtained by reaction of 4a-c, 7a,b with arsenic trioxide, phenylarsine oxide, triphenylarsine oxide in ethanol or chloroform.  
 IT 478011-65-3P 478011-66-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (heterocyclization; preparation of nitrogen-containing arsenic heterocycles, 1,3,5,2-dithiazarsenines, by heterocyclization of thioacyl thioureas with arsenic derivs.)  
 RN 478011-65-3 HCAPLUS  
 CN Glycine, N-[[ (phenylthioxomethyl) amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



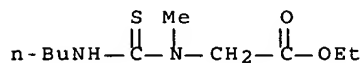
RN 478011-66-4 HCAPLUS  
 CN Glycine, N-[thioxo[(1-thioxoethyl)amino]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



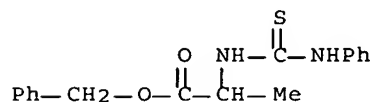
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 89 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:855867 HCAPLUS Full-text  
 DOCUMENT NUMBER: 139:214346

TITLE: Product class 3- imidazoles  
 AUTHOR(S): Grimmett, M. R.  
 CORPORATE SOURCE: Organic Chemistry, Dept. of Chemistry, University of Otago, Dunedin, N. Z.  
 SOURCE: Science of Synthesis (2002), 12, 325-528  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 ED Entered STN: 12 Nov 2002  
 AB A review. Methods for preparing imidazoles are reviewed including cyclization, ring transformations, aromatization and modification of substituents on existing imidazoles.  
 IT 192062-94-5 192062-96-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of imidazoles via cyclization, ring transformation, aromatization and substituent modifications)  
 RN 192062-94-5 HCAPLUS  
 CN Glycine, N-[(butylamino)thioxomethyl]-N-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 192062-96-7 HCAPLUS  
 CN Alanine, N-[(phenylamino)thioxomethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 823 THERE ARE 823 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L49 ANSWER 90 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:691240 HCAPLUS Full-text  
 DOCUMENT NUMBER: 138:106660  
 TITLE: Pyrido[2,3-d]pyrimidines and pyrimido[5',4':5,6]pyrido[2,3-d]pyrimidines as new antiviral agents: synthesis and biological activity  
 AUTHOR(S): Nasr, Magda N.; Gineinah, Magdy M.  
 CORPORATE SOURCE: Department of Medicinal Chemistry, Faculty of Pharmacy, University of Mansoura, Mansoura, 35516, Egypt  
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (2002), 335(6), 289-295  
 CODEN: ARPMAS; ISSN: 0365-6233  
 PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal HCAPLUS  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 138:106660

ED Entered STN: 12 Sep 2002

AB A series of 7-amino- and 7-oxo-5-aryl-6-cyanopyrido[2,3-d]pyrimidines, I [Ar = 4-ClC<sub>6</sub>H<sub>4</sub>, 2-BrC<sub>6</sub>H<sub>4</sub>, 4-BrC<sub>6</sub>H<sub>4</sub>, 3-HOC<sub>6</sub>H<sub>4</sub>, 3-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>, 2,4-(MeO)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 3,4-(MeO)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>] and II [Ar = 4-BrC<sub>6</sub>H<sub>4</sub>, 3-HOC<sub>6</sub>H<sub>4</sub>, 2,4-(MeO)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>], resp., and pyrimido[5',4':5,6]pyrido[2,3-d]pyrimidines III [Ar = 4-ClC<sub>6</sub>H<sub>4</sub>, 4-BrC<sub>6</sub>H<sub>4</sub>, 2,4-(MeO)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 3,4-(MeO)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, X = S, O] and IV (Ar = 4-ClC<sub>6</sub>H<sub>4</sub>, 3-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>) were synthesized and investigated as antiviral agents. Different synthetic strategies for the preparation of the target compds. were explored. A synthetic procedure for I and II starting with 6-amino-1,2,3,4-tetrahydro-2,4-dioxypyrimidine, proper aldehyde, and malononitrile or Et cyanoacetate, resp., in a one-pot reaction proved to be the method of choice for preparation of compds. of such type. Construction of another pyrimidine ring on the pyridine nucleus of I was achieved either by reaction with Ph iso(thio)cyanate or with formic acid to yield III and IV, resp. The structure of the prepared compds. was confirmed through elemental anal. and spectral investigation. Most of the newly synthesized compds. were subjected to antiviral activity testing against herpes simplex virus (HSV) where some of them show good activities.

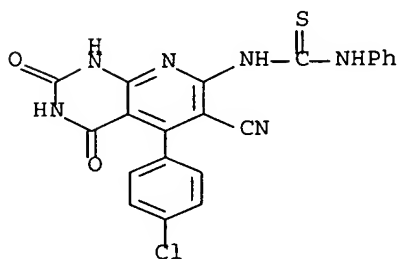
IT 487061-97-2P 487061-98-3P 487061-99-4P  
487062-00-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN  
(Synthetic preparation); BIOL (Biological study); PREP (Preparation);  
RACT (Reactant or reagent)

(preparation, antiviral activity, cytotoxicity, and structure-activity  
relationship of pyrimidopyridopyrimidines via addition of  
amino(cyano)pyridopyrimidines to phenylisocyanate and  
phenylisothiocyanate followed by cyclization)

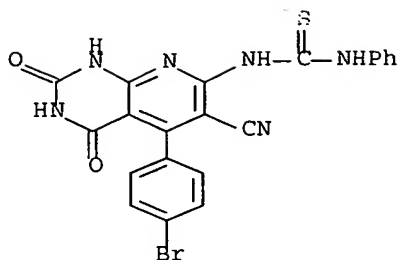
RN 487061-97-2 HCAPLUS

CN Thiourea, N-[5-(4-chlorophenyl)-6-cyano-1,2,3,4-tetrahydro-2,4-  
dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



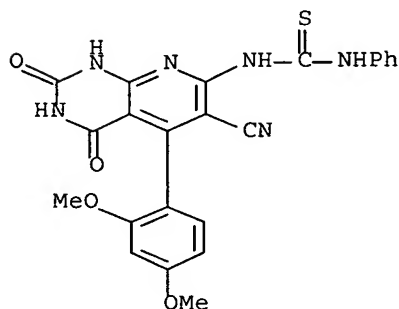
RN 487061-98-3 HCAPLUS

CN Thiourea, N-[5-(4-bromophenyl)-6-cyano-1,2,3,4-tetrahydro-2,4-  
dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



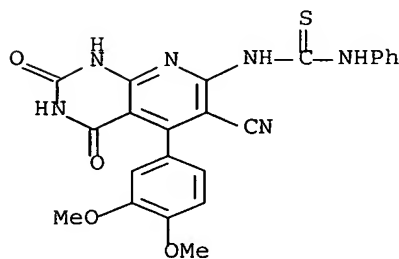
RN 487061-99-4 HCAPLUS

CN Thiourea, N-[6-cyano-5-(2,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 487062-00-0 HCAPLUS

CN Thiourea, N-[6-cyano-5-(3,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 91 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

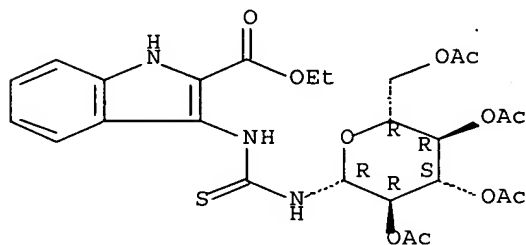
ACCESSION NUMBER: 2003:39594 HCAPLUS Full-text

DOCUMENT NUMBER: 139:22440

TITLE: A Convenient Synthesis of Novel Nucleosides of 2-Thioxo-5H-3,4-dihydropyrimido[5,4-b]indol-4-one

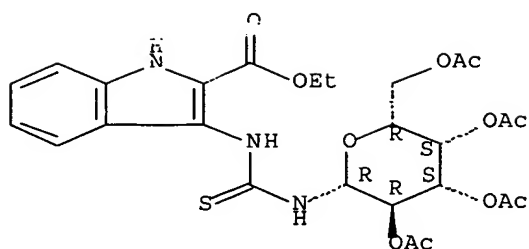
AUTHOR(S): Saleh, Mohamed  
 CORPORATE SOURCE: Faculty of Science, Department of Chemistry, Tanta University, Tanta, Egypt  
 SOURCE: Sulfur Letters (2002), 25(6), 235-245  
 CODEN: SULED2; ISSN: 0278-6117  
 PUBLISHER: Taylor & Francis Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 139:22440  
 ED Entered STN: 17 Jan 2003  
 AB Reaction of 3-amino-2-ethoxycarbonylindole with per-O-acetyl-sugar isothiocyanates gave the corresponding glycopyranosyl thioureas. The N-nucleosides analogs 3-(per-O-acetyl- $\beta$ -D-glycopyranosyl)-2-thioxo-5H-3,4-dihydropyrimido[5,4-b] indol-4-one were obtained by cyclization of the thioureas in the presence of ZnCl<sub>2</sub>. Deacetylation with sodium methoxide in methanol yielded the free nucleoside derivs. Alkylation with Me iodide and benzyl bromide gave good yields of the corresponding 2-methylthio and 2-benzylthio analogs. 2-Methylsulfonyl compds. were obtained from the corresponding 2-methylthio compds. by oxidation with m-chloroperoxybenzoic acid.  
 IT 539845-89-1P 539845-93-7P 539845-99-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (convenient synthesis of novel nucleosides of thioxodihydropyrimido[5,4-b]indolone via glycosylation, cyclization, alkylation and oxidation)  
 RN 539845-89-1 HCAPLUS  
 CN 1H-Indole-2-carboxylic acid, 3-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 539845-93-7 HCAPLUS  
 CN 1H-Indole-2-carboxylic acid, 3-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

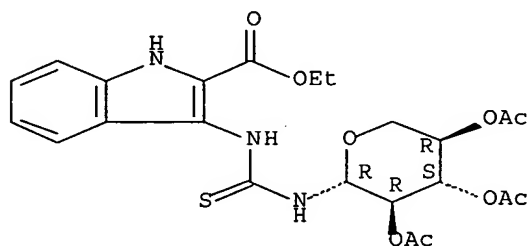
Absolute stereochemistry.



RN 539845-99-3 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 3-[[thioxo[(2,3,4-tri-O-acetyl-beta-D-xylopyranosyl)amino]methyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 92 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:855866 HCAPLUS Full-text

DOCUMENT NUMBER: 139:214345

TITLE: Product class 2: 1H- and 2H-indazoles

AUTHOR(S): Stadlbauer, W.

CORPORATE SOURCE: Institut fur Organische Chemie, Karl-Franzens-Universitat, Graz, A-8010, Austria

SOURCE: Science of Synthesis (2002), 12, 227-324

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 12 Nov 2002

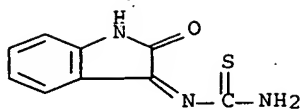
AB A review of methods for preparation of 1H- and 2H-indazoles. Covered reactions include ring-closure reactions, ring transformations, and substituent modifications.

IT 574758-16-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of 1H- and 2H-indazoles via ring-closure reactions, ring transformations, and substituent modifications)

RN 574758-16-0 HCAPLUS

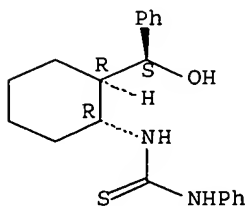
CN Thiourea, (1,2-dihydro-2-oxo-3H-indol-3-ylidene)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 664 THERE ARE 664 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

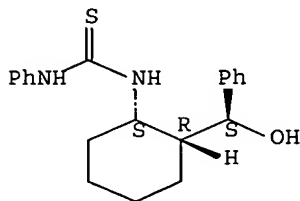
L49 ANSWER 93 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:279206 HCAPLUS Full-text  
 DOCUMENT NUMBER: 135:107290  
 TITLE: Synthesis and transformations of 2-(phenylhydroxymethyl)cyclohexylamines  
 AUTHOR(S): Csomos, P.; Bernath, G.; Sohar, P.; Csampai, A.; De Kimpe, N.; Fulop, F.  
 CORPORATE SOURCE: Institute of Pharmaceutical Chemistry, University of Szeged, Szeged, H-6720, Hung.  
 SOURCE: Tetrahedron (2001), 57(15), 3175-3183  
 CODEN: TETRAB; ISSN: 0040-4020  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:107290  
 ED Entered STN: 19 Apr 2001  
 AB Diastereomeric 2-(phenylhydroxymethyl)cyclohexylamines were synthesized by reduction of 2-benzoylcyclohexylamines. (1S\*,2R\*)-2-Benzoylcyclohexylamine can be reduced diastereoselectively to the  $\gamma$ -amino alc. with sodium borohydride; for (1R\*,2R\*)-2-benzoylcyclohexylamine lithium aluminum hydride was found to be a selective reducing agent. In both cases, high syn selectivities were observed. The amino alcs. were transformed to cyclohexane-fused tetrahydro-1,3-oxazin-2-ones and -2-thiones. The  $\gamma$ -amino alcs. reacted with arylimidates to afford 4,5-dihydro-6H-1,3-oxazines. Their cyclization with Ph isothiocyanate yielded 2-phenyliminotetrahydro-1,3-oxazines.  
 IT 149331-40-8P 350029-07-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclizations of 2-(phenylhydroxymethyl)cyclohexyl amines)  
 RN 149331-40-8 HCAPLUS  
 CN Thiourea, N-[(1R,2R)-2-[(S)-hydroxyphenylmethyl]cyclohexyl]-N'-phenyl-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 350029-07-1 HCAPLUS  
 CA Thiourea, N-[(1R,2S)-2-[(R)-hydroxyphenylmethyl]cyclohexyl]-N'-phenyl-,  
 rel- (9CI) (CA INDEX NAME)

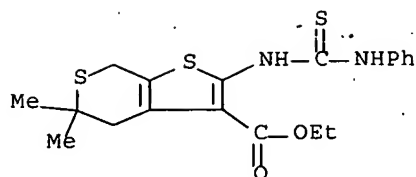
Relative stereochemistry.



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

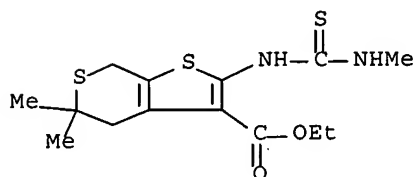
L49 ANSWER 94 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:68038 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:355220  
 TITLE: Condensed thienopyrimidines. 14. Synthesis of  
 10H-thiopyrano[4'',3'':4',5']thieno[2',3':4,5]pyrimido  
 [2,3-c]-1,2,4-triazines  
 AUTHOR(S): Oganisyan, A. Sh.; Grigoryan, G. O.; Noravyan, A. S.  
 CORPORATE SOURCE: A. L. Mndzhoyan Institute of Fine Organic Chemistry,  
 Armenian Republic National Academy of Sciences,  
 Yerevan, 375014, Armenia  
 SOURCE: Chemistry of Heterocyclic Compounds (New York, NY,  
 United States) (Translation of Khimiya  
 Geterotsiklicheskikh Soedinenii) (2001),  
 37(8), 1025-1028  
 CODEN: CHCCAL; ISSN: 0009-3122  
 PUBLISHER: Kluwer Academic/Consultants Bureau  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 136:355220  
 ED Entered STN: 25 Jan 2002  
 AB Reaction of a substituted 2-aminothienothiopyran (I) with Me or Ph  
isothiocyanate, intramol. cyclization of the obtained N'-methyl(phenyl)  
 thioureido derivs., and work-up of the cyclization products with hydrazine  
 hydrate gave 2-hydrazinodihydrothiopyranthienopyr imidines. Treatment of  
 these with pyruvic acid gave the title compds. (II; R = Me, Ph).  
 IT 327168-51-4P 383395-93-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 327168-51-4 HCAPLUS  
 CN 5H-Thieno[2,3-c]thiopyran-3-carboxylic acid, 4,7-dihydro-5,5-dimethyl-2-  
 [(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)





RN 383395-93-5 HCAPLUS

CN 5H-Thieno[2,3-c]thiopyran-3-carboxylic acid, 4,7-dihydro-5,5-dimethyl-2-  
[[methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 95 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:376845 HCAPLUS Full-text

DOCUMENT NUMBER: 133:4662

TITLE: Preparation of 2-alkoxycarbonylamino-1-methyl-6-  
phenylimidazo[4,5-b]pyridines and 2-amino-1-methyl-6-  
phenylimidazo[4,5-b]pyridine from them as carcinogens

INVENTOR(S): Shimamura, Seiichi; Hashimoto, Koichi

PATENT ASSIGNEE(S): Morinaga Milk Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000154189	A	20000606	JP 1998-328093	19981118 <--
PRIORITY APPLN. INFO.:			JP 1998-328093	19981118 <--

OTHER SOURCE(S): CASREACT 133:4662; MARPAT 133:4662

ED Entered STN: 07 Jun 2000

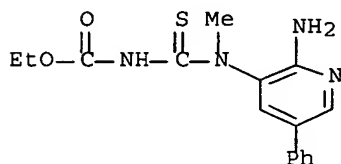
AB Title compds. I (R = lower alkyl), useful as intermediates for carcinogens (no data), are prepared by reaction of 2-amino-3-methylamino-5- phenylpyridine with alkoxycarbonyl isothiocyanates and intramol. desulfurization cyclization of 2-amino-3-(N'-alkoxycarbonyl-N- methylthioureido)-5-phenylpyridines with mercury oxide or lead oxide. 2-Amino-3-methylamino-5-phenylpyridine hydrochloride was reacted with ethoxycarbonyl isothiocyanate in the presence of Et3N in THF at room temperature for 4 h to give 78.7% 2-amino-3-(N'-ethoxycarbonyl-N- methylthioureido)-5-phenylpyridine, which was reacted with mercury oxide in EtOH under reflux for 1 h and hydrolyzed in the presence of

HCl in p-dioxane under reflux for 3 h to give 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine.

IT 271241-40-8P, N-Methyl-N-(2-amino-5-phenyl-3-pyridyl)-N'-(ethoxycarbonyl)thiourea  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation of alkoxycarbonylaminoimidazopyridines by addition of aminophenylpyridines with alkoxycarbonyl isothiocyanates and intramol. cyclization)

RN 271241-40-8 HCAPLUS

CN Carbamic acid, [[(2-amino-5-phenyl-3-pyridinyl)methylamino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 96 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:376844 HCAPLUS Full-text

DOCUMENT NUMBER: 133:4661

TITLE: Preparation of 2-benzoylamino-1-methyl-6-phenylimidazo[4,5-b]pyridines and 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridines from them as carcinogens

INVENTOR(S): Shimamura, Seiichi; Hashimoto, Koichi

PATENT ASSIGNEE(S): Morinaga Milk Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000154188	A	20000606	JP 1998-328092	19981118 <--
PRIORITY APPLN. INFO.:			JP 1998-328092	19981118 <--

OTHER SOURCE(S): CASREACT 133:4661; MARPAT 133:4661

ED Entered STN: 07 Jun 2000

AB Title compds. I (R = H, halo, lower alkyl, lower alkoxy, NO<sub>2</sub>), useful as intermediates for carcinogens (no data), are prepared by reaction of 2-amino-3-methylamino-5-phenylpyridine with (un)substituted benzoyl isothiocyanates and intramol. desulfurization cyclization of (un)substituted 2-amino-3-(N'-benzoyl-N-methylthioureido)-5-phenylpyridines with mercury oxide or lead oxide. 2-Amino-3-methylamino-5-phenylpyridine hydrochloride was reacted with benzoyl isothiocyanate in the presence of Et<sub>3</sub>N in THF at room temperature for 4 h to give 94.3% 2-amino-3-(N'-benzoyl-N-methylthioureido)-5-phenylpyridine, which was reacted with mercury oxide in EtOH under reflux for 1 h and hydrolyzed in the presence of HCl in p-dioxane under reflux for 3 h to give 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine.

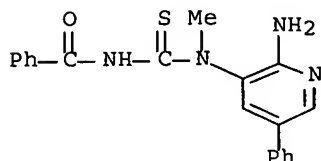
IT 271242-46-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of benzoylaminoimidazopyridines by addition of  
aminophenylpyridines with benzoyl isothiocyanates and  
intramol. cyclization)

RN 271242-46-7 HCAPLUS

CN Benzamide, N-[[[(2-amino-5-phenyl-3-pyridinyl)methylamino]thioxomethyl]-  
(9CI) (CA INDEX NAME)



L49 ANSWER 97 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:995 HCAPLUS Full-text

DOCUMENT NUMBER: 132:180260

TITLE: Synthesis and Anion-Selective Complexation of  
Cyclophane-Based Cyclic Thioureas

AUTHOR(S): Sasaki, Shin-ichi; Mizuno, Masaaki; Naemura, Koichiro;  
Tobe, Yoshito

CORPORATE SOURCE: Department of Chemistry Faculty of Engineering  
Science, Osaka University, Toyonaka Osaka, 560-8531,  
Japan

SOURCE: Journal of Organic Chemistry (2000), 65(2),  
275-283

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 03 Jan 2000

AB Cyclic thiourea derivs. having three different types of cyclophane structure, ortho-meta, meta-meta, and meta-para, and a lariat-type thiourea, were synthesized, and their anion-binding ability was examined. The association consts. for the complexation between the receptors and several anions in DMSO-d<sub>6</sub> were measured by the titration method using <sup>1</sup>H NMR spectroscopy. All receptors, except for the meta-para cyclophane, exhibit selective binding to the dihydrogenphosphate anion, which is stronger than that of the acyclic reference compound. The lariat-type receptor binds anions even more strongly than the cyclic receptors which do not possess the third binding site.

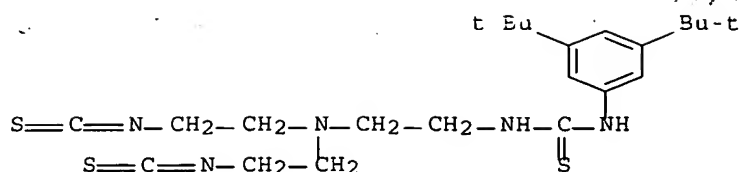
IT 259222-93-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)

(cyclization; synthesis and anion-selective H-bonding  
complexation by cyclophane-based cyclic thioureas in DMSO)

RN 259222-93-0 HCAPLUS

CN Thiourea, N-[3,5-bis(1,1-dimethylethyl)phenyl]-N'-[2-[bis(2-  
isothiocyanatoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 98 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:737804 HCAPLUS Full-text

DOCUMENT NUMBER: 132:78618

TITLE: Synthesis and oxidation of N,N'-bis(diisopropoxythiophosphorylthiocarbamido)-o-phenylenediamine

AUTHOR(S): Sokolov, F. D.; Brus'ko, V. V.; Zabiroy, N. G.; Cherkasov, R. A.

CORPORATE SOURCE: Kazan State University, Kazan, Russia

SOURCE: Russian Journal of General Chemistry (Translation of Zhurnal Obshchei Khimii) (1999), 69(6), 1006-1007

CODEN: RJGCEK; ISSN: 1070-3632

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 19 Nov 1999

AB Thiophosphorylated bithiourea I, prepared in 75% yield by reaction of o-phenylenediamine with (i-PrO)2P(S)NCS, when treated with iodine, at room temperature, cyclized to give 80% benzimidazole II.

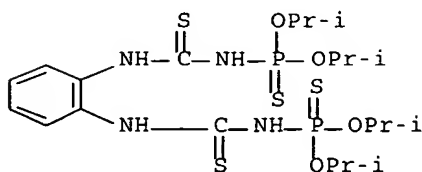
IT 245411-52-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of thiophosphorylthiocarbamidophenyle nediamine)

RN 245411-52-3 HCAPLUS

CN Phosphoramidothioic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, O,O,O',O'-tetrakis(1-methylethyl) ester (9CI) (CA INDEX NAME)



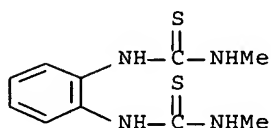
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 99 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

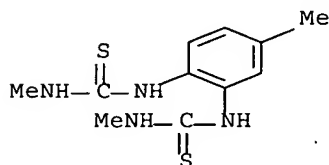
ACCESSION NUMBER: 1999:124268 HCAPLUS Full-text

DOCUMENT NUMBER: 130:267376

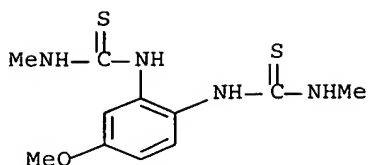
TITLE: A new route for the synthesis of 2-mercapto  
 benzimidazoles  
 AUTHOR(S): Ambati, Narahari Babu; Babu, V. N. S. Ramesh; Anand,  
 V.; Hanumanthu, P.  
 CORPORATE SOURCE: Department of Chemistry, Osmania University,  
 Hyderabad, 500 007, India  
 SOURCE: Synthetic Communications (1999), 29(2),  
 289-294  
 CODEN: SYNCAV; ISSN: 0039-7911  
 PUBLISHER: Marcel Dekker, Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 130:267376  
 ED Entered STN: 25 Feb 1999  
 AB Bis(methylthioureido) benzenes I [R = H, Me, MeO, Cl, O<sub>2</sub>N; R<sub>1</sub> = NHC(:S)NHMe]  
 were prepared in 72-89% yields by treatment of benzenediamines II [R = H, Me,  
 MeO, Cl, O<sub>2</sub>N; R<sub>1</sub> = NH<sub>2</sub>] with Me isothiocyanate. I are refluxed in 1,4-dioxane  
 to give benzimidazolethiols II (R = H, Me, MeO) in 89-92% yields and N,N'-  
 dimethylthiourea as a side product.  
 IT 35525-02-1P 222403-72-7P 222403-74-9P  
222403-76-1P 222403-78-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation of benzimidazolethiols by cyclization of  
 bis(methylthioureido)benzenes)  
 RN 35525-02-1 HCAPLUS  
 CN Thiourea, N,N''-1,2-phenylenebis[N'-methyl- (9CI) (CA INDEX NAME)



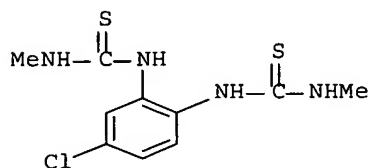
RN 222403-72-7 HCAPLUS  
 CN Thiourea, N,N''-(4-methyl-1,2-phenylene)bis[N'-methyl- (9CI) (CA INDEX NAME)



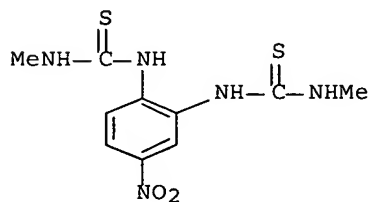
RN 222403-74-9 HCAPLUS  
 CN Thiourea, N,N''-(4-methoxy-1,2-phenylene)bis[N'-methyl- (9CI) (CA INDEX NAME)



RN 222403-76-1 HCAPLUS  
 CN Thiourea, N,N'-(4-chloro-1,2-phenylene)bis[N'-methyl- (9CI) (CA INDEX NAME)



RN 222403-78-3 HCAPLUS  
 CN Thiourea, N,N'-(4-nitro-1,2-phenylene)bis[N'-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 100 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:62531 HCAPLUS Full-text  
 DOCUMENT NUMBER: 130:196635  
 TITLE: Synthesis of 1,2,4-triazolo[5,1-b]1,3,5-thiadiazepin-5-ylamine derivatives  
 AUTHOR(S): Song, Choong Eui; Kim, Ji-Sook; Choi, Jung Hoon; Jin, Byung Woo  
 CORPORATE SOURCE: Division of Applied Science, Korea Institute of Science and Technology, Seoul, 130-650, S. Korea  
 SOURCE: Heterocycles (1999), 51(1), 161-168  
 CODEN: HTCYAM; ISSN: 0385-5414  
 PUBLISHER: Japan Institute of Heterocyclic Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 130:196635

ED Entered STN: 01 Feb 1999. (9CI) (CA INDEX NAME) ED Entered

AB The synthesis of triazoles I (R = H, Ph, p-ClC<sub>6</sub>H<sub>4</sub>) was attempted via reaction of N-[2-(1,2,4-triazol-5-ylthio)phenyl]thioureas II (same R) with DCC in MeCN. However, 1,2,4-triazolo[5,1-b]1,3,5-thiadiazepin-5-ylamine derivs. III were obtained due to cyclodesulfurization of thioureas II with DCC. Crystal structure data are presented for one of the 1,3,5-thiadiazepine products (III, R = p-ClC<sub>6</sub>H<sub>4</sub>).

IT 220834-46-8P 220834-47-9P 220834-48-0P

220834-49-1P 220834-50-4P 220834-51-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

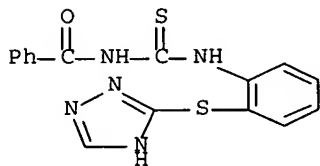
(Preparation); RACT (Reactant or reagent)

(preparation of triazolothiadiazepinylamine derivs. via

cyclodesulfurization of triazolylthiophenylthioureas)

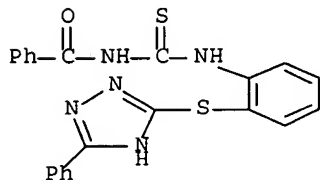
RN 220834-46-8 HCAPLUS

CN Benzamide, N-[thioxo[[2-(1H-1,2,4-triazol-3-ylthio)phenyl]amino]methyl]-  
(9CI) (CA INDEX NAME)



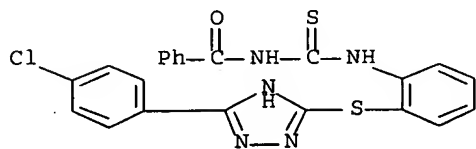
RN 220834-47-9 HCAPLUS

CN Benzamide, N-[[[2-[(5-phenyl-1H-1,2,4-triazol-3-yl)thio]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



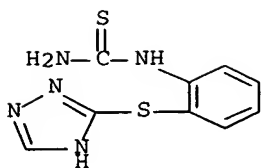
RN 220834-48-0 HCAPLUS

CN Benzamide, N-[[[2-[[5-(4-chlorophenyl)-1H-1,2,4-triazol-3-yl]thio]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

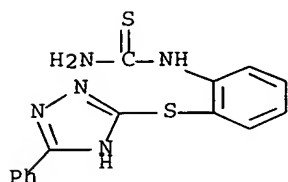


RN 220834-49-1 HCAPLUS

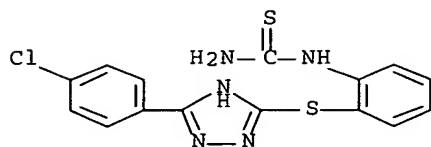
CN Thiourea, [2-(1H-1,2,4-triazol-3-ylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 220834-50-4 HCAPLUS  
 CN Thiourea, [2-[(5-phenyl-1H-1,2,4-triazol-3-yl)thio]phenyl]- (9CI) (CA INDEX NAME)



RN 220834-51-5 HCAPLUS  
 CN Thiourea, [2-[[5-(4-chlorophenyl)-1H-1,2,4-triazol-3-yl]thio]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 101 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:612576 HCAPLUS Full-text  
 DOCUMENT NUMBER: 131:351291  
 TITLE: Synthesis of 4-oxo-2-thioxo-1,2,3,4,5,6-hexahydrospiro[benzo[h]quinazoline-5,1'-cyclohexane] and its reaction with dibromoalkanes  
 AUTHOR(S): Markosyan, A. I.; Kuroyan, R. A.; Dilanyan, S. V.; Oganessian, A. Sh.; Aleksanyan, M. S.; Karapetyan, A. A.; Struchkov, Yu. T.  
 CORPORATE SOURCE: A. L. Mndzhoyan Institute of Fine Organic Chemistry, Armenian National Academy of Sciences, Yerevan, 375014, Armenia  
 SOURCE: Chemistry of Heterocyclic Compounds (New York) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (1999), 35(1), 101-105



CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 131:351291

ED Entered STN: 26 Sep 1999

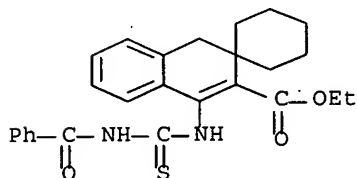
AB 4-(N'-Benzoylthioureido)-3-ethoxycarbonyl-1,2-dihydrospiro[naphthalene-2,1'-cyclohexane] (I, R = CSNHBz), which was synthesized from I (R = H) and benzoyl isothiocyanate, cyclized to give the title spiro compound (II). Reaction of II with 1,2-dibromoethane or 1,3-dibromopropane gave products of intramolecular dialkylation at the S and N-3 atoms, i.e., III (n = 1, 2).

IT 250215-99-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 250215-99-7 HCAPLUS

CN Spiro[cyclohexane-1,2' (1'H)-naphthalene]-3'-carboxylic acid, 4'-[[ (benzoylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 102 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:644491 HCAPLUS Full-text

DOCUMENT NUMBER: 127:346352

TITLE: Saturated heterocycles. 248. Synthesis of 2,4-dioxo and 4-oxo-2-thioxo derivatives of octahydrocyclopenta[d]pyrimidines

AUTHOR(S): Fulop, Ferenc; Szakonyi, Zsolt; Bernath, Gabor; Sohar, Pal

CORPORATE SOURCE: Institute of Pharmaceutical Chemistry, Albert Szent-Gyorgyi Medical University, Szeged, H-6701, Hung.

SOURCE: Journal of Heterocyclic Chemistry (1997), 34(4), 1211-1217

CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER: HeteroCorporation

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 11 Oct 1997

AB Cis-cyclopenta[d]pyrimidines I (R = H, benzyl; R1 = H; X = O, S) were prepared from the corresponding cis-2-amino-1-cyclopentanecarboxylates by cyclization with KOCN and KSCN. The cis cyclopentanecarboxylates II (R = H, benzyl; R1 = Ph, Me; X = O, S) readily underwent ring closure to give I (R = H, benzyl; R1 = Ph, Me; X = O, S), whereas the trans isomers of II failed to cyclize and gave hydrolyzed amino acid derivs. This difference in the reactivities of the

cis and trans isomers is a further example of the difficulty of preparing cyclopentane trans-fused six-membered 1,3-heterocycles by ring closure.

IT 198209-07-3P 198209-08-4P 198209-11-9F  
198209-12-0P 198209-15-3P 198209-16-4P

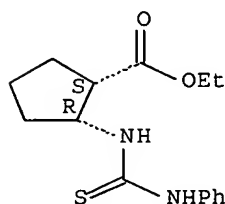
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)

(preparation of dioxo- and oxothioxocyclopentapyrimidines by  
cyclization of cis aminocyclopentanecarboxylates)

RN 198209-07-3 HCAPLUS

CN Cyclopentanecarboxylic acid, 2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

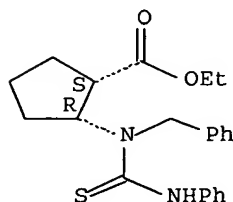
Relative stereochemistry.



RN 198209-08-4 HCAPLUS

CN Cyclopentanecarboxylic acid, 2-[[[(phenylamino)thioxomethyl](phenylmethyl)amino]-, ethyl ester, cis- (9CI) (CA INDEX NAME)

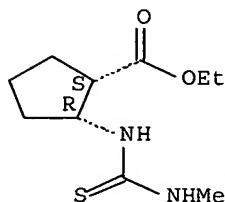
Relative stereochemistry.



RN 198209-11-9 HCAPLUS

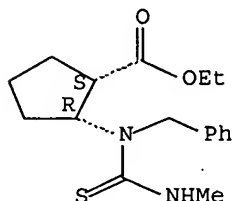
CN Cyclopentanecarboxylic acid, 2-[[[(methylamino)thioxomethyl]amino]-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



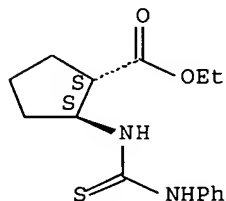
RN 198209-12-0 HCAPLUS  
 CN Cyclopentanecarboxylic acid, 2-[[[(methylamino)thioxomethyl] (phenylmethyl)amino]-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



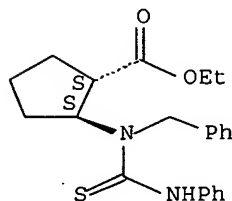
RN 198209-15-3 HCAPLUS  
 CN Cyclopentanecarboxylic acid, 2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 198209-16-4 HCAPLUS  
 CN Cyclopentanecarboxylic acid, 2-[[[(phenylamino)thioxomethyl] (phenylmethyl)amino]-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

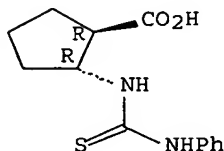


IT 198209-27-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of dioxo- and oxothioxocyclopentapyrimidines by  
cyclization of cis aminocyclopentanecarboxylates)

RN 198209-27-7 HCAPLUS  
 CN Cyclopentanecarboxylic acid, 2-[[[(phenylamino)thioxomethyl]amino]-,

(1P,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 103 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:748898 HCAPLUS Full-text

DOCUMENT NUMBER: 128:61500

TITLE: 1,3-Thiazepines. 1. Synthesis and spectral properties of 2-iminohexahydro-1,3-thiazepines

AUTHOR(S): Ambartsumova, R. F.; Levkovich, M. G.; Mil'grom, E. G.; Abdullaev, N. D.

CORPORATE SOURCE: Institute of Phytochemistry, Academy of Sciences of the Republic of Uzbekistan, Tashkent, 700170, Uzbekistan

SOURCE: Chemistry of Heterocyclic Compounds (New York) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (1997), 33(1), 112-117  
CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 28 Nov 1997

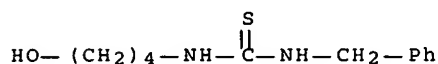
AB Reaction of 4-amino-1-butanol with isothiocyanates RNCS (R = CH<sub>2</sub>Ph, 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>, α-C<sub>10</sub>H<sub>7</sub>, etc.) gave N-(4-hydroxybutyl)-N'-R thioureas, which by cyclization when treated with hydrohalic acids were converted to the corresponding iminothiazepines I. The mol. structures of I were confirmed by NMR, IR, and mass spectra.

IT 31930-30-0P 200337-20-8P 200337-21-9P  
200337-22-0P 200337-23-1P 200337-24-2P  
200337-25-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of iminothiazepines via cyclization of (hydroxybutyl)thioureas)

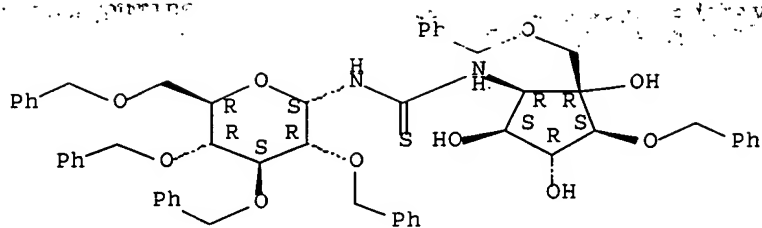
RN 31930-30-0 HCAPLUS

CN Thiourea, N-(4-hydroxybutyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 200337-20-8 HCAPLUS

CN Thiourea, N-(4-hydroxybutyl)-N'-phenyl- (9CI) (CA INDEX NAME)



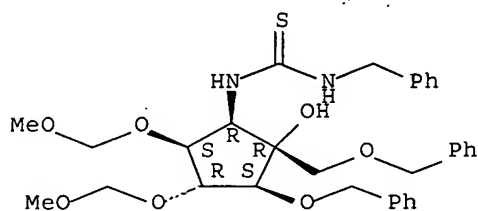
IT 144811-30-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and demethoxymethylation of)

RN 144811-30-3 HCAPLUS

CN Thiourea, N-[2-hydroxy-4,5-bis(methoxymethoxy)-3-(phenylmethoxy)-2-  
[(phenylmethoxy)methyl]cyclopentyl]-N'-(phenylmethyl)-,  
[1R-(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 122 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:59653 HCAPLUS Full-text

DOCUMENT NUMBER: 118:59653

TITLE: Synthesis of [2,3-dihydro-7-methyl-1,4-benzothiazin-3-one-2-spiro-4'-(2'-thioxo-1-R-phenylimidazolidin-5'-one)]

AUTHOR(S): Shivanyuk, A. F.; Sereda, S. V.; Lozinskii, M. O.

CORPORATE SOURCE: Inst. Org. Khim., Kiev, Ukraine

SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1992), 58(8), 682-5

CODEN: UKZHAU; ISSN: 0041-6045

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 118:59653

ED Entered STN: 16 Feb 1993

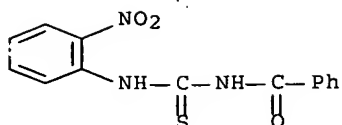
AB Regioselective intramol. spirocyclization of thioureas I (R = H, Me, Cl) in boiling EtOH or HOAc afforded the title compds. II (representing cyclization via the indicated thiourea tautomer). Crystallog. structure anal. of II (R = H) is presented.

IT 145586-59-0P 145586-60-3P 145586-61-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and regioselective intramol. spirocyclization of)

RN 145586-59-0 HCAPLUS

CN 2H-1,4-Benzothiazine-2-carboxylic acid, 3,4-dihydro-7-methyl-3-oxo-2-



L49 ANSWER 121 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:147931 HCAPLUS Full-text

DOCUMENT NUMBER: 118:147931

TITLE: Syntheses and absolute configurations of trehazolin and its aglycon

AUTHOR(S): Kobayashi, Yoshiyuki; Miyazaki, Hideki; Shiozaki, Masao

CORPORATE SOURCE: New Lead Res. Lab., Sankyo Co., Ltd., Tokyo, 140, Japan

SOURCE: Journal of the American Chemical Society (1992), 114(25), 10065-6

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 13 Apr 1993

AB Trehazolin (I) and its aglycon were synthesized from D-glucose via the common intermediate, azide II in a stereocontrolled manner. The absolute configuration of the natural aglycon is thus 1R(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ , 4 $\beta$ ,5 $\beta$ ).

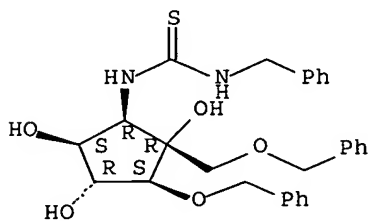
IT 144811-31-4P 144811-36-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 144811-31-4 HCAPLUS

CN Thiourea, N-(phenylmethyl)-N'-[2,4,5-trihydroxy-3-(phenylmethoxy)-2-[(phenylmethoxy)methyl]cyclopentyl]-, [1R-(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 144811-36-9 HCAPLUS

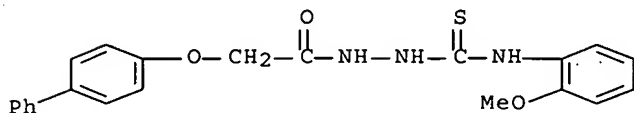
CN Thiourea, N-[2,3,4,6-tetrakis-O-(phenylmethyl)- $\alpha$ -D-glucopyranosyl]-N'-[2,4,5-trihydroxy-3-(phenylmethoxy)-2-[(phenylmethoxy)methyl]cyclopentyl]-, [1R-(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation, cyclization, and antiinflammatory and antiproteolytic activity of)

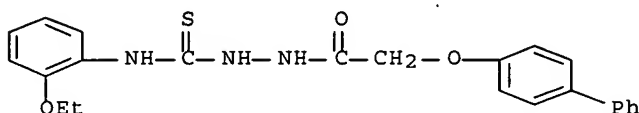
RN 147865-14-3 HCAPLUS

CN Acetic acid, ([1,1'-biphenyl]-4-yloxy)-, 2-[[2-methoxyphenyl]amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 147865-16-5 HCAPLUS

CN Acetic acid, ([1,1'-biphenyl]-4-yloxy)-, 2-[[2-ethoxyphenyl]amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 120 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:633045 HCAPLUS Full-text

DOCUMENT NUMBER: 121:233045

TITLE: Synthesis and properties of disperse monoazo dyes derived from 4-, 5-, or 6-nitro-2-aminobenzothiazole

AUTHOR(S): Malinowski, Wlodzimierz; Szadowski, Jerzy

CORPORATE SOURCE: Inst. Dyes, Tech. Univ., Lodz, Pol.

SOURCE: Polish Journal of Applied Chemistry (1993), 37(1-2), 127-32

CODEN: PJACE2; ISSN: 0867-8928

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 Nov 1994

AB Mononitro 2-aminobenzothiazoles were obtained by cyclization of 1-(nitrophenyl)-3-benzoylthioureas with the use of NaNO<sub>2</sub> followed by debenzoylation. The amines were then used for synthesis (by diazotization and coupling with N-ethylanilines) of a series of monoazo disperse dyes (I; R<sub>1</sub> = Et, cyanoethyl; R<sub>2</sub> = H, acetamido; X, Y, Z = H, NO<sub>2</sub>) for which spectral and dyeing properties were determined. Introduction of the nitrobenzothiazole system into dye mols. resulted in increased fastness to sublimation and reduced brightness on polyester.

IT 66934-10-9P, 1-Benzoyl-3-(2-nitrophenyl)thiourea

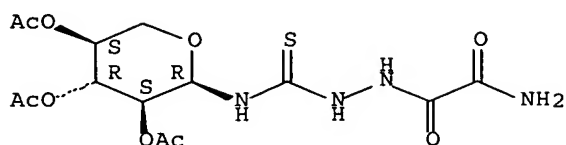
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of benzoylnitrophenylthioureas)

RN 66934-10-9 HCAPLUS

CN Benzamide, N-[[2-(nitrophenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)

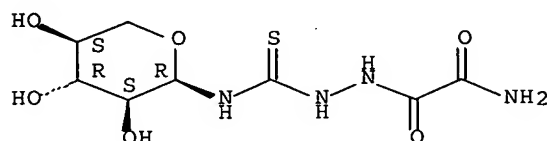
Absolute stereochemistry.



RN 157017-97-5 HCAPLUS

CN Acetic acid, aminooxo-, 2-[thioxo( $\alpha$ -L-xylopyranosylamino)methyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 119 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:254825 HCAPLUS Full-text

DOCUMENT NUMBER: 118:254825

TITLE: Substituted thiosemicarbazides and corresponding cyclized 1,3,4-oxadiazoles and their antiinflammatory activity

AUTHOR(S): Raman, Krishna; Singh, Haribansh K.; Salzman, Steven K.; Parmar, Surendra S.

CORPORATE SOURCE: Alfred I. duPont Inst., Nemours Found., Wilmington, DE, 19899, USA

SOURCE: Journal of Pharmaceutical Sciences (1993), 82(2), 167-9

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 118:254825

ED Entered STN: 26 Jun 1993

AB PhC<sub>6</sub>H<sub>4</sub>(OCH<sub>2</sub>CONHNHCSNHR)-p (R = substituted Ph) and their corresponding cyclized oxadiazoles I were synthesized and characterized by elemental analyses and IR, mass, and NMR spectra. All compds. were evaluated for antiinflammatory activity by determining their ability to provide protection against carrageenin-induced edema in rat paw. The antiinflammatory activity possessed by substituted thiosemicarbazides [100 mg/kg, i.p.] ranged from 22-68%, whereas I (100 mg/kg, i.p.) provided protection of 10-76%. Hydrocortisone (10 mg/kg, i.p.) and oxyphenbutazone (40 mg/kg, i.p.), used as standard reference drugs, decreased edema in rat paw by 44.6 and 52.9%, resp. All compds. (1 mM) possessed antiproteolytic activity that was reflected by their ability to cause in vitro inhibition of trypsin-induced hydrolysis of bovine serum albumin. This inhibition ranged between 43 and 72% for substituted thiosemicarbazides and 30 and 83% for I.

IT 147865-14-3P 147865-16-5P



149 ANSWER 118 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:534575 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:134575  
 TITLE: Synthesis of the N-D- and N-L-xylopyranosides of  
 2-amino-5-carbamoyl-1,3,4-oxadiazole  
 AUTHOR(S): Wojtowicz, Mscislaw  
 CORPORATE SOURCE: Lab. Org. Chem., Inst. Drug Control, Warsaw, 00725,  
 Pol.  
 SOURCE: Acta Poloniae Pharmaceutica (1993), 50(2-3),  
 275-82  
 CODEN: APPHAX; ISSN: 0001-6837  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Polish  
 OTHER SOURCE(S): CASREACT 121:134575

ED Entered STN: 17 Sep 1994

AB 1-Isothiocyano-1-deoxy-2,3,4-tri-O-acetyl-L-xylopyranose, prepared from L-  
 xylose by bromination in Ac<sub>2</sub>O and subsequent reaction with AgNCS, reacted with  
 H<sub>2</sub>NNHCOCONH<sub>2</sub> in dioxane to yield 71% I. Further reaction with HgO in EtOH  
 gave 62% II, subsequently deacetylated with NH<sub>3</sub>/MeOH. The cyclization and  
 deacetylation reaction were also carried out in reverse order. An analogous  
 reaction sequence started with D-xylose.

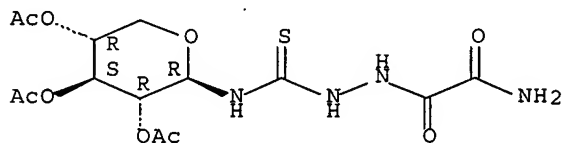
IT 157017-92-0P 157017-93-1P 157017-96-4P  
157017-97-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, with mercuric oxide)

RN 157017-92-0 HCAPLUS

CN Acetic acid, aminooxo-, 2-[thioxo[(2,3,4-tri-O-acetyl-β-D-  
 xylopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

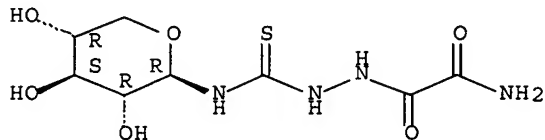
Absolute stereochemistry.



RN 157017-93-1 HCAPLUS

CN Acetic acid, aminooxo-, 2-[thioxo(β-D-xylopyranosylamino)methyl]hydra-  
 zide (9CI) (CA INDEX NAME)

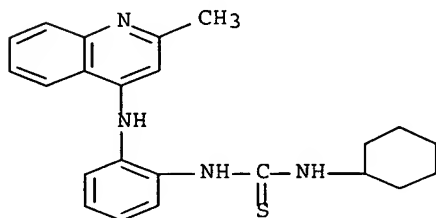
Absolute stereochemistry.



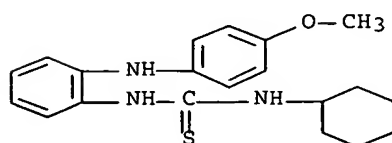
RN 157017-96-4 HCAPLUS

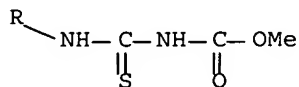
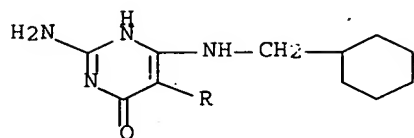
CN Acetic acid, aminooxo-, 2-[thioxo[(2,3,4-tri-O-acetyl-α-L-  
 xylopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

CORPORATE SOURCE: New Drug Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, 532, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1993), 41(2), 301-9  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 18 Sep 1993  
 AB 2-Amino-1H-benzimidazoles I (R1 = 2-methyl-4-quinolyl, 4-MeOC6H4, 2-benzothiazolyl; R2 = cyclohexyl, 4-MeOC6H4) and 1,2-dihydro-2-iminocycloheptimidazoles II (R1 = 2-methyl-4-quinolyl, 4-pyridyl, 2-pyridyl, 2-thiazolyl, etc.; R2 = 2-methyl-4-quinolyl, 2-benzothiazolyl, 1H-benzimidazolyl-2-yl, etc.) were synthesized and evaluated for antiinflammatory and analgesic activity. I were synthesized via phenylthioureas or 2-chloro-1H-benzimidazole. II were synthesized by two methods: the reaction of carbodiimides with 2-amino-2,4,6-cycloheptatrien-1-one, or the reaction of guanidines with 2-chloro-2,4,6-cycloheptatrien-1-one. Some I and II compds. exhibited potent antiinflammatory and analgesic activities when compared to timegadine or tiaramide hydrochloride. II (R1 = 2-benzothiazolyl, R2 = cyclohexyl) showed superior analgesic activity to both timegadine and tiaramide HCl (50% edema inhibition = 1.7 mg/kg when given orally in the acetic acid-induced writhing test; 14.0 mg/kg orally in the Randall-Selitto method) in spite of having no effect on prostaglandin E2 synthesis. Crystal structure data for some II compds. are presented.  
 IT 148806-73-9P 148806-75-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 148806-73-9 HCAPLUS  
 CN Thiourea, N-cyclohexyl-N'-[2-[(2-methyl-4-quinolinyl)amino]phenyl]- (9CI) (CA INDEX NAME)



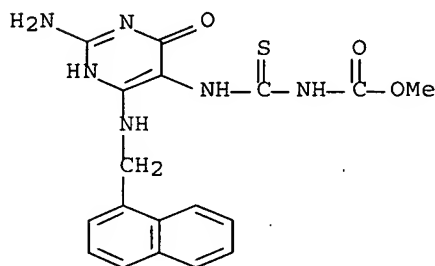
RN 148806-75-1 HCAPLUS  
 CN Thiourea, N-cyclohexyl-N'-[2-[(4-methoxyphenyl)amino]phenyl]- (9CI) (CA INDEX NAME)





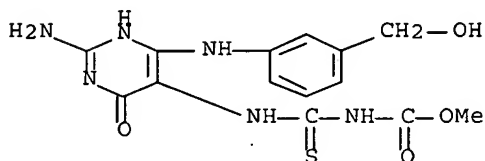
RN 146203-18-1 HCAPLUS

CN Carbamic acid, [[[2-amino-1,4-dihydro-6-[(1-naphthalenylmethyl)amino]-4-oxo-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 146203-19-2 HCAPLUS

CN Carbamic acid, [[[2-amino-1,4-dihydro-6-[[3-(hydroxymethyl)phenyl]amino]-4-oxo-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 117 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:517178 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 119:117178

TITLE: Synthesis and antiinflammatory and analgesic properties of 2-amino-1H-benzimidazole and 1,2-dihydro-2-iminocycloheptimidazole derivatives

AUTHOR(S): Taniguchi, Kiyoshi; Shigenaga, Shinji; Ogahara, Takatomo; Fujitsu, Takashi; Matsuo, Masaaki

derivatives as potential inhibitors of purine nucleoside phosphorylase

AUTHOR(S): Chern, Ji Wang; Lee, Horng Yuh; Chen, Chien Shu; Shewach, Donna S.; Daddona, Peter E.; Townsend, Leroy B.

CORPORATE SOURCE: Med. Lab., Natl. Def. Med. Cent., Taipei, 100, Taiwan

SOURCE: Journal of Medicinal Chemistry (1993),

36(8), 1024-31

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 Jun 1993

AB In an effort to develop potent human purine nucleoside phosphorylase (PNP) inhibitors as immunosuppressive and chemotherapeutic agents, several 8-aminoguanine derivs., e.g. I [R = (CH<sub>2</sub>)<sub>5</sub>Me, (CH<sub>2</sub>)<sub>5</sub>CO<sub>2</sub>H, R<sub>1</sub>-R<sub>3</sub>, R<sub>4</sub> = OH, SPh (II), R<sub>5</sub> = iodo, COC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>F-4], and formycin derivs. III (R<sub>6</sub> = SPh, COC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>F-4), were synthesized and evaluated as potential PNP inhibitors. These studies were designed to investigate the hydrophobic effect of a substituent on the N-9 of the purine heterocycle and/or the C-5' positions. The affinity of these compds. to erythrocytic PNP was determined and none of these compds. showed a better affinity than those of the parent compds. The effect of hydrophobicity at the N-9 and the C-5' positions might play an important role in binding to the active site of PNP. Thus, compound II was found to be the best inhibitor in this series.

IT 146203-15-8P 146203-16-9P 146203-17-0P

146203-18-1P 146203-19-2P

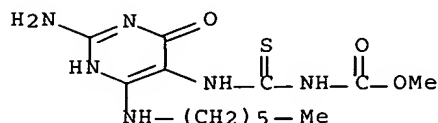
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and ring closure of)

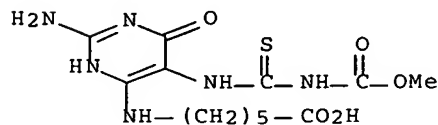
RN 146203-15-8 HCAPLUS

CN Carbamic acid, [[[2-amino-6-(hexylamino)-1,4-dihydro-4-oxo-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



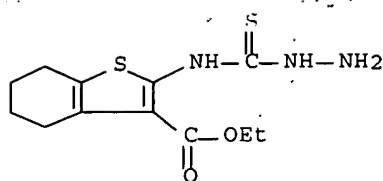
RN 146203-16-9 HCAPLUS

CN Hexanoic acid, 6-[[[2-amino-1,6-dihydro-5-[[[(methoxycarbonyl)amino]thioxomethyl]amino]-6-oxo-4-pyrimidinyl]amino]- (9CI) (CA INDEX NAME)

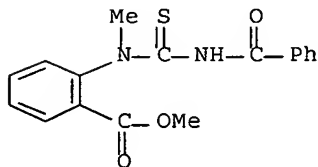


RN 146203-17-0 HCAPLUS

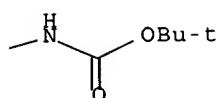
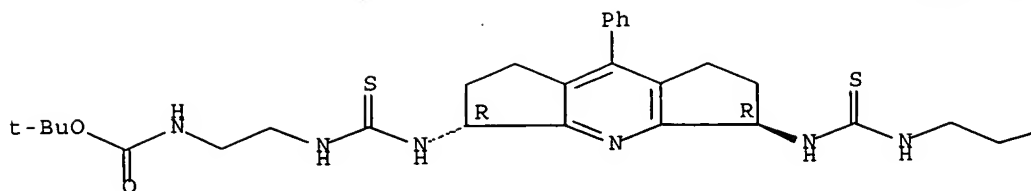
CN Carbamic acid, [[[2-amino-6-[(cyclohexylmethyl)amino]-1,4-dihydro-4-oxo-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 115 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:625390 HCAPLUS Full-text  
 DOCUMENT NUMBER: 119:225390  
 TITLE: Study of cyclization of 1-benzoyl-3-methyl-3(2-methoxycarbonylphenyl)thiourea to 1-methyl-2-thioxo-4-quinazolinone  
 AUTHOR(S): Kavalek, Jaromir; Machacek, Vladimir; Sedlak, Milos; Sterba, Vojceslav  
 CORPORATE SOURCE: Dep. Org. Chem., Univ. Chem. Technol., Pardubice, 532 10, Czech.  
 SOURCE: Collection of Czechoslovak Chemical Communications (1993), 58(5), 1122-32  
 CODEN: CCCCAK; ISSN: 0010-0765  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 119:225390  
 ED Entered STN: 27 Nov 1993  
 AB Kinetics of the title reaction showed that the reaction takes place in two stages considerably differing in rates. In the first, faster stage, the anion of initial substance cyclizes to 1-methyl-3-benzoyl-2-thioxo-4-quinazolinone (I). The reaction is reversible; the concentration of I decreases with increasing concentration of methanolate. In the second stage, the benzoyl group rearranges from N to S; subsequent methanolysis gave the title product. The rate-determining step is the methanolysis for  $[CH_3O(-)] < 4 \cdot 10^{-3}$  mol l<sup>-1</sup> and the benzoyl group rearrangement for higher methanolate concns.  
 IT 150920-62-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (ring closure of, kinetics and mechanism of)  
 RN 150920-62-0 HCAPLUS  
 CN Benzoic acid, 2-[[[(benzoylamino)thioxomethyl]methylamino]-, methyl ester (9CI) (CA INDEX NAME)

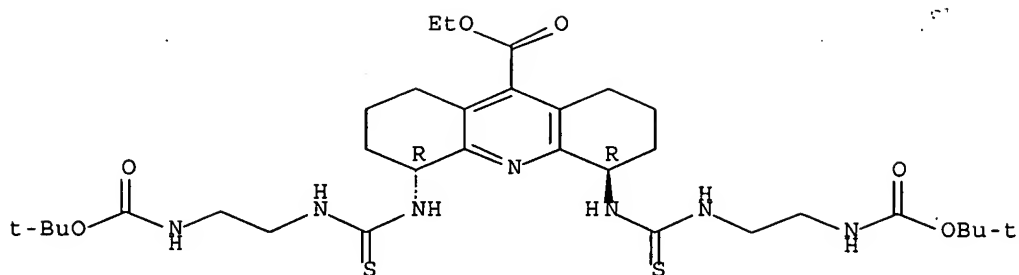


L49 ANSWER 116 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:234397 HCAPLUS Full-text  
 DOCUMENT NUMBER: 118:234397  
 TITLE: Nucleosides. 5. Synthesis of guanine and formycin B



L49 ANSWER 114 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:671101 HCAPLUS Full-text  
 DOCUMENT NUMBER: 119:271101  
 TITLE: Synthesis of 2,3,5,6,7,8-hexahydro-3-amino-2-thioxo[1]benzothieno[2,3-d]pyrimidin-4(1H)-one and derivatives of the new heterocyclic system 7,8,9,10-tetrahydro-3H,11H-[1]benzothieno[2',3':4,5]pyrimido[2,1-b][1,3,4]thiadiazin-11-one  
 AUTHOR(S): Santagati, Andrea; Santagati, Maria; Modica, Maria  
 CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Catania, Catania, Italy  
 SOURCE: Heterocycles (1993), 36(6), 1315-21  
 CODEN: HTCYAM; ISSN: 0385-5414  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 119:271101  
 ED Entered STN: 25 Dec 1993  
 AB A versatile compound, 2,3,5,6,7,8-hexahydro-3-amino-2-thioxo[1]benzothieno[2,3-d]pyrimidin-4(1H)-one (I), was synthesized from Et 4,5,6,7-tetrahydro-2-isothiocyanato-1-benzothiophene-3-carboxylate. Derivs., e.g., II, of a heterocyclic linear system having the 1,3,4-thiadiazine ring were obtained from the key intermediate (I).  
 IT 151094-88-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and ring closure of)  
 RN 151094-88-1 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 2-[(hydrazinothioxomethyl)amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

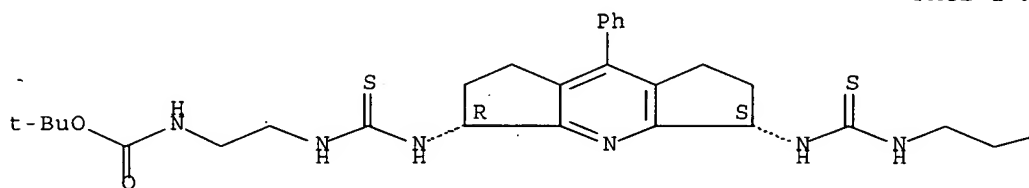


RN 152663-97-3 HCAPLUS

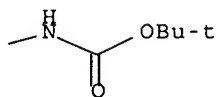
CN Carbamic acid, [(1,2,3,5,6,7-hexahydro-8-phenyldicyclopenta[b,e]pyridine-3,5-diyl)bis(iminocarbonothioylimino-2,1-ethanediyl)]bis-, bis(1,1-dimethylethyl) ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 1-B



RN 152663-98-4 HCAPLUS

CN Carbamic acid, [(1,2,3,5,6,7-hexahydro-8-phenyldicyclopenta[b,e]pyridine-3,5-diyl)bis(iminocarbonothioylimino-2,1-ethanediyl)]bis-, bis(1,1-dimethylethyl) ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

AB Four bis(guanidinium) receptors have been synthesized in which the guanidinium groups are spatially preorganized by an octahydroacridine (meso-I and d,l-I) or hexahydrodicyclopenta[b,e]pyridine (meso-II and d,l-II) spacer to complement a phosphodiester. These structures are designed to mimic the active site of staphylococcal nuclease and, thereby, form four hydrogen bonds to a bound phosphodiester with little reorganization of the host structures. The syntheses involve two parts: construction of the spacer and formation of the aminoimidazoline groups via an intramol. cyclization between an amine and a thiouronium salt. Binding consts. between the receptors and the dibenzyl phosphate range from  $4.0 \times 10^3$  to  $10 \text{ M}^{-1}$  in highly competitive solvent systems such as aqueous DMSO. Each receptor forms both a 1:1 and 2:1 phosphate to host complex. The methods for determining  $K_1$  and  $K_2$  are discussed in detail and involve both  $^{31}\text{P}$  and  $^1\text{H}$  NMR titration expts. followed by a linear treatment of the data. Binding in pure DMSO is worth 3-4 kcal/mol, but the addition of water significantly decreases the degree of complexation. When the guanidinium counterions are tetraphenylboron, the meso forms of the hosts are the best receptors due to preorganization of the guanidinium groups on the same face of the spacer. When the counterions are chloride, the d,l forms can be the best receptors due to a specific ion effect where a chloride is involved in the host-guest complex. Addition of chloride salts increases binding, possibly due to a chaotropic "salting-out" phenomenon. The structures of the host-guest complexes of meso-II with dibenzyl phosphate and Ph phosphate have been determined by x-ray anal. The structures demonstrate the chloride-counter ion assistance and confirm the four hydrogen bonds between the host and the guest. Near-identical structures to the crystal structures are calculated by mol. mechanics for the complex formed between di-Me phosphate and meso-I and meso-II. Meso-I has been found to act as an RNA hydrolysis catalyst and is the first step toward the optimization of a functional RNA-cleaving artificial enzyme.

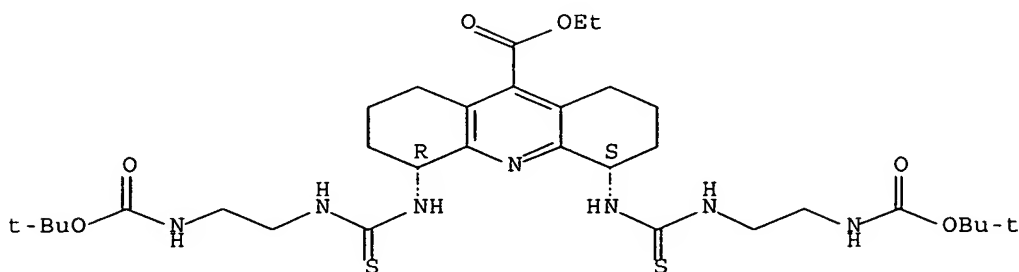
IT 137743-47-6P 137743-48-7P 152663-97-3P  
152663-98-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

RN 137743-47-6 HCAPLUS

CN 9-Acridinecarboxylic acid, 4,5-bis[[[2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]amino]thioxomethyl]amino] -  
 1,2,3,4,5,6,7,8-octahydro-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 137743-48-7 HCAPLUS

CN 9-Acridinecarboxylic acid, 4,5-bis[[[2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]amino]thioxomethyl]amino] -  
 1,2,3,4,5,6,7,8-octahydro-, ethyl ester, trans- (9CI) (CA INDEX NAME)



L49 ANSWER 112 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:323518 HCAPLUS Full-text

DOCUMENT NUMBER: 120:323518

TITLE: Synthesis of 2,3-dihydro-3-amino-6-phenyl-2-thioxothieno[2,3-d]pyrimidin-4(1H)-one and of potential antiinflammatory agents 2-aryl-7-phenyl-3H,9H-pyrimido[2,1-b]thieno[2',3':4,5][1,3,4]thiadiazin-9-ones

AUTHOR(S): Santagati, A.; Modica, Maria; Santagati, Maria; Caruso, Antonina; Cutuli, Vincenzo

CORPORATE SOURCE: Fac. Farm., Univ. Catania, Italy

SOURCE: Pharmazie (1994), 49(1), 64-5

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 25 Jun 1994

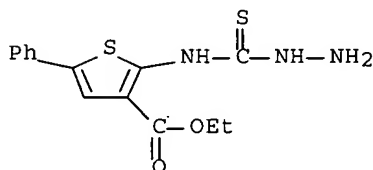
AB Thienopyrimidinone I and pyrimidothienothiadiazinones II (R = H, Cl, MeO, NO<sub>2</sub>) were prepared from 3-carbethoxy-5-phenyl-2-thienyl isothiocyanate. Several products were tested for analgesic and antiinflammatory activities.

IT 155054-30-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 155054-30-1 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[(hydrazinothioxomethyl)amino]-5-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 113 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:107143 HCAPLUS Full-text

DOCUMENT NUMBER: 120:107143

TITLE: Bis(alkylguanidinium) receptors for phosphodiesterases: effect of counterions, solvent mixtures, and cavity flexibility on complexation

AUTHOR(S): Kneeland, Diane M.; Ariga, Katsuhiko; Lynch, Vincent M.; Huang, Chia Yu; Anslyn, Eric V.

CORPORATE SOURCE: Dep. Chem. Biochem., Univ. Texas, Austin, TX, 78712-1167, USA

SOURCE: Journal of the American Chemical Society (1993), 115(22), 10042-55

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 05 Mar 1994

Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, C<sub>10</sub>H<sub>7</sub> PhCH<sub>2</sub>, C<sub>6</sub>H<sub>11</sub>, EtO<sub>2</sub>CCH<sub>2</sub>), which refluxed with 2% NaOH or Ac<sub>2</sub>O or 3N HCl or AcCl cyclized to give II (R as above but HO<sub>2</sub>CCH<sub>2</sub> replaced the ester; also R = Bu).

IT 166108-19-6P

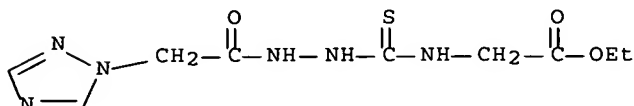
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(cyclization of thiosemicarbazide derivs. of triazoleacetic acid)

RN 166108-19-6 HCAPLUS

CN 1H-1,2,4-Triazole-1-acetic acid, 2-[[[2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 111 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:202273 HCAPLUS Full-text

DOCUMENT NUMBER: 122:31427

TITLE: Synthesis of 1-(3,4,5-trimethoxybenzoyl)-4-aryltriosemicarbazides and studies on their cyclizing behavior under acid catalysis

AUTHOR(S): Feng, Xiaoming; Chen, Rong; Lin, Gang

CORPORATE SOURCE: Academic Sinica, Chengdu Institute of Organic Chemistry, Chengdu, 610041, Peop. Rep. China

SOURCE: Huaxue Shiji (1994), 16(4), 211-14

CODEN: HUSHDR; ISSN: 0258-3283

PUBLISHER: Huagongbu Huaxue Shiji Keji Qingbao Zhongxinzhan

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

ED Entered STN: 19 Nov 1994

AB Condensation of 3,4,5-(MeO)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>CONHNH<sub>2</sub> with RCONCS (R = Ph, substituted Ph, PhCH<sub>2</sub>CH, 1-naphthylmethyl, furyl) gave 53.1-75.6% 3,4,5-(MeO)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>CONHNHC(S)NHCOR, which were refluxed in HOAc for 4 h to give 73.7-90.4% thiadiazoles I. I (R = 4-BrC<sub>6</sub>H<sub>4</sub>, 4-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>, 4-MeC<sub>6</sub>H<sub>4</sub>) showed bacetrucidal activity against B. subtilis.

IT 159764-72-4P

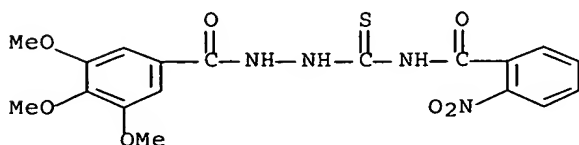
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

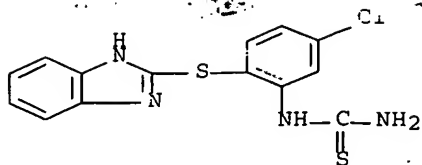
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of (trimethoxybenzoyl)aryltriosemicarbazides)

RN 159764-72-4 HCAPLUS

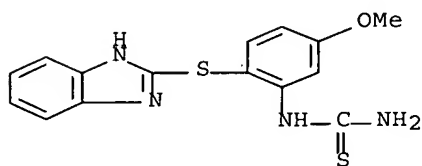
CN Benzoic acid, 3,4,5-trimethoxy-, 2-[[[2-nitrobenzoyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)





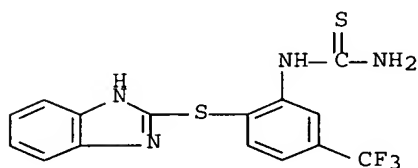
RN 157168-60-0 HCAPLUS

CN Thiourea, [2-(1H-benzimidazol-2-ylthio)-5-methoxyphenyl]- (9CI) (CA INDEX NAME)



RN 157168-61-1 HCAPLUS

CN Thiourea, [2-(1H-benzimidazol-2-ylthio)-5-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 110 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:459426 HCAPLUS Full-text

DOCUMENT NUMBER: 123:111945

TITLE: Cyclization reactions of thiosemicarbazide derivatives with 1,2,4-triazole system. I. Cyclization of thiosemicarbazide derivatives of 1,2,4-triazole-1-acetic acid

AUTHOR(S): Dobosz, Maria; Sikorska, Maryla

CORPORATE SOURCE: Dep. Org. Chem., Sch. Med., Lublin, 20081, Pol.

SOURCE: Acta Poloniae Pharmaceutica (1994), 51(4-5), 369-76

CODEN: APPHAX; ISSN: 0001-6837

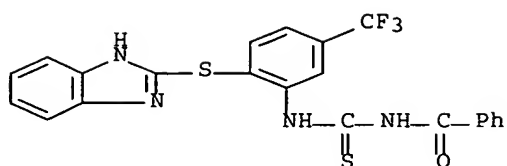
PUBLISHER: Polish Pharmaceutical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 31 Mar 1995

AB 1,2,4-Triazole-1-acetylhydrazine and isothiocyanates reacted to yield thiosemicarbazides I (R = Ph, 4-MeC6H4, 4-IC6H4, 4-BrC6H4, 3-MeOC6H4, 2,3-

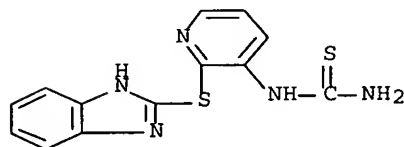


IT 157168-57-5P 157168-58-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and intramol. cyclization of)

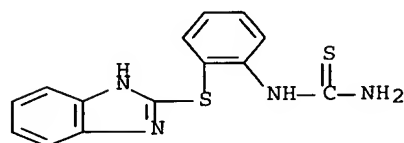
RN 157168-57-5 HCAPLUS

CN Thiourea, [2-(1H-benzimidazol-2-ylthio)-3-pyridinyl]- (9CI) (CA INDEX  
NAME)



RN 157168-58-6 HCAPLUS

CN Thiourea, [2-(1H-benzimidazol-2-ylthio)phenyl]- (9CI) (CA INDEX NAME)

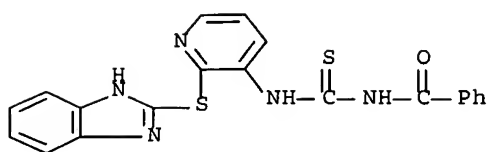


IT 157168-59-7P 157168-60-0P 157168-61-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in preparation of  
benzimidazobenzothiadiazepine  
derivative)

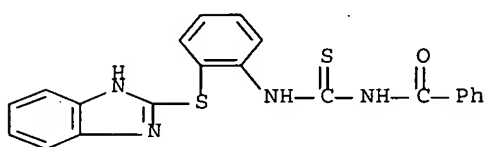
RN 157168-59-7 HCAPLUS

CN Thiourea, [2-(1H-benzimidazol-2-ylthio)-5-chlorophenyl]- (9CI) (CA INDEX  
NAME)



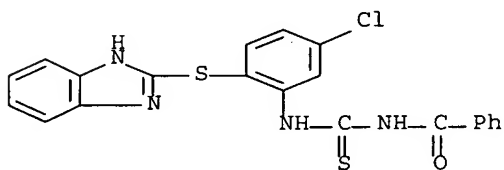
RN 157168-70-2 HCAPLUS

CN Benzamide, N-[[[2-(1H-benzimidazol-2-ylthio)phenyl]amino]thioxomethyl]-  
(9CI) (CA INDEX NAME)



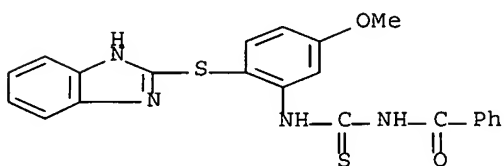
RN 157168-71-3 HCAPLUS

CN Benzamide, N-[[[2-(1H-benzimidazol-2-ylthio)-5-chlorophenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



RN 157168-72-4 HCAPLUS

CN Benzamide, N-[[[2-(1H-benzimidazol-2-ylthio)-5-methoxyphenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



RN 157168-73-5 HCAPLUS

CN Benzamide, N-[[[2-(1H-benzimidazol-2-ylthio)-5-(trifluoromethyl)phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

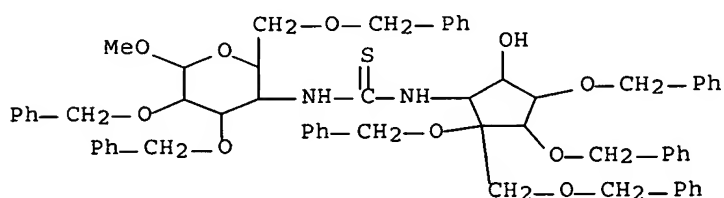
of (1→1) linkage. Protected aminocyclitol, prepared from D-ribonolactone, was hydrolyzed and then condensed with 4- isothiocyanato-glucopyranoside. The resulting thiourea was cyclized and protected to afford I. Pseudodisaccharide I competitively inhibited yeast  $\alpha$ -glucosidase ( $K_i = 9.3 \mu\text{M}$ ) and Agrobacterium  $\beta$ -glucosidase ( $K_i = 48 \mu\text{M}$ ), whereas the pseudo-glucopyranosylamine moiety bound more weakly. As trehalozin binds poorly to (1→4) glucosidases, the enzymes are clearly recognizing and drawing significant affinity from the presence and mode of linkage of the aglycon portion of I.

IT 158632-03-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 158632-03-2 HCAPLUS

CN  $\alpha$ -D-Glucopyranoside, methyl 4-deoxy-4-[[[5-hydroxy-2,3,4-tris(phenylmethoxy)-2-[(phenylmethoxy)methyl]cyclopentyl]amino]thioxomethyl]amino]-2,3,6-tris-O-(phenylmethyl)-, [1R-(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ ,4,6 $\alpha$ )]- (9CI) (CA INDEX NAME)



L49 ANSWER 109 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:534087 HCAPLUS Full-text

DOCUMENT NUMBER: 121:134087

TITLE: A synthesis of 1,3,5-thiadiazepine skeleton derivatives: benzimidazo[2,1-b][1,3,5]pyridothiadiazepine and benzimidazo[2,1-b][1,3,5]benzothiadiazepine derivatives

AUTHOR(S): Jin, Byung-Woo; Cho, Sung-Hye

CORPORATE SOURCE: Dep. Chem., Chung-Ang Univ., Seoul, 156-756, S. Korea

SOURCE: Heterocycles (1994), 38(6), 1213-16

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 121:134087

ED Entered STN: 17 Sep 1994

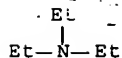
AB Pyrido and benzothiadiazepine derivs. I (R = H, X = N; R = H, Cl, MeO, F3C, X = CH) were successfully synthesized in good yields by the reaction of N-substituted thiourea II and N-substituted S-methylisothiourea derivs. in the presence of DCC or potassium carbonate.

IT 157168-69-9P 157168-70-2P 157168-71-3P  
157168-72-4P 157168-73-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hydrolysis of)

RN 157168-69-9 HCAPLUS

CN Benzamide, N-[[[2-(1H-benzimidazol-2-ylthio)-3-pyridinyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

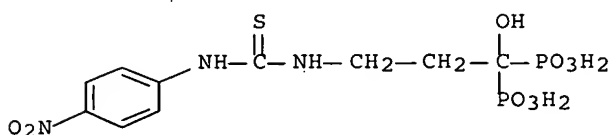


RN 174278-77-4 HCAPLUS  
 CN Phosphonic acid, [1-hydroxy-3-[[[(4-nitrophenyl)amino]thioxomethyl]amino]propylidene]bis-, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 174278-76-3

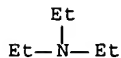
CMF C10 H15 N3 O9 P2 S



CM 2

CRN 121-44-8

CMF C6 H15 N



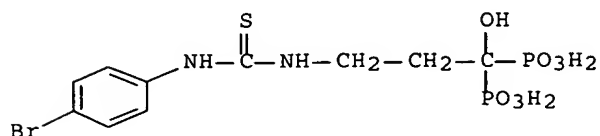
L49 ANSWER 108 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:649204 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:249204  
 TITLE: A (1→4)-"trehazolid" glucosidase inhibitor with aglycon selectivity  
 AUTHOR(S): Knapp, Spencer; Purandare, Ashok; Rupitz, Karen; Withers, Stephen G.  
 CORPORATE SOURCE: Department of Chemistry, Rutgers The State University of New Jersey, New Brunswick, NJ, 08903, USA  
 SOURCE: Journal of the American Chemical Society (1994), 116(16), 7461-2  
 CODEN: JACSAT; ISSN: 0002-7863  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 121:249204  
 ED Entered STN: 26 Nov 1994  
 AB The synthesis and enzymic evaluation of a designed, linkage-spanning, pseudodisaccharide (I) are presented. The structure of I is based on the naturally occurring trehalase inhibitor trehazolin, but with a (1→4) instead

CN Phosphonic acid, [3-[[[(4-bromophenyl)amino]thioxomethyl]amino]-1-hydroxypropylidene]bis-, compd. with N,N-diethylethanamine (1:1) (9CI)  
(CA INDEX NAME)

CM 1

CRN 174278-72-9

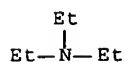
CMF C10 H15 Br N2 O7 P2 S



CM 2

CRN 121-44-8

CMF C6 H15 N



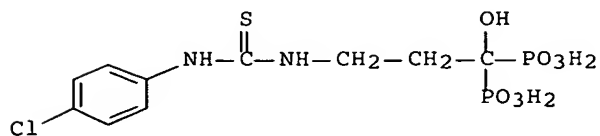
RN 174278-75-2 HCAPLUS

CN Phosphonic acid, [3-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-1-hydroxypropylidene]bis-, compd. with N,N-diethylethanamine (1:1) (9CI)  
(CA INDEX NAME)

CM 1

CRN 174278-74-1

CMF C10 H15 Cl N2 O7 P2 S



CM 2

CRN 121-44-8

CMF C6 H15 N



structure of thiazolium-substituted  
alkylidene-1,1-bisphosphonic acids

AUTHOR(S): Chuiko, A. L.; Filonenko, L. P.; Borisevich, A. N.;  
Lozinskii, M. O.

CORPORATE SOURCE: Inst. Org. Khim., Kiev, Ukraine

SOURCE: Zhurnal Obshchei Khimii (1995), 65(8),  
1332-7

CODEN: ZOKHAA4; ISSN: 0044-460X

PUBLISHER: Nauka

DOCUMENT TYPE: Journal

LANGUAGE: Russian

ED Entered STN: 13 Jan 1996

AB Reaction of  $\text{NH}_2\text{CH}_2\text{CH}_2\text{C}(\text{OH})(\text{PO}_3\text{H}_2)_2$  with  $p\text{-RC}_6\text{H}_4\text{NCS}$  ( $\text{R} = \text{H}, \text{Br}, \text{Cl}, \text{NO}_2$ ) in presence of excess  $\text{NEt}_3$  gave 62-68% 4- $\text{RC}_6\text{H}_4\text{NHC}(\text{S})\text{NHCH}_2\text{CH}_2\text{C}(\text{OH})(\text{PO}_3\text{H}_2)_2$ .  
dot. $\text{NEt}_3$ . $\text{nH}_2\text{O}$  ( $n = 1-3$ ). Treating the latter with  $\text{BrCH}_2\text{COR}'$  ( $\text{R}' = \text{Me}, \text{Ph}, 3,5\text{-di-tert-butyl-4-hydroxyphenyl}$ ) in aqueous  $\text{EtOH}$  containing  $\text{Et}_3\text{N}$  gave 65-95% Hantzsch cyclization products I (same  $\text{R}, \text{R}'$ ). The same reaction was also studied in  $\text{DMSO}$  and in  $\text{H}_2\text{O}$ , and depending on the conditions and steric factors, 1 or 2 isomeric substituted thiazolium byproducts are formed. A mechanism is discussed, and product structures were studied by  $^1\text{H}$  NMR spectra.

IT 140846-29-3P 174278-73-0P 174278-75-2P  
174278-77-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)

(preparation and Hantzsch cyclization of

thioureido(hydroxy)propylidenebisphosphonic acid salts with bromo  
ketones)

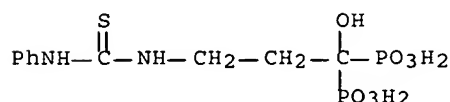
RN 140846-29-3 HCAPLUS

CN Phosphonic acid, [1-hydroxy-3-[[[(phenylamino)thioxomethyl]amino]propyliden  
e]bis-, compd. with  $\text{N,N}$ -diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 140846-26-0

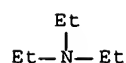
CMF C10 H16 N2 O7 P2 S



CM 2

CRN 121-44-8

CMF C6 H15 N



RN 174278-73-0 HCAPLUS

31-38

CODEN: APPHAX; ISSN: 0001-6837

PUBLISHER:

Polish Pharmaceutical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 21 Dec 1996

AB Reactions of hydrazides of formic, nicotinic, and benzoic acids with isothiocyanates gave thiosemicarbazide derivs. Further cyclization with 2% NaOH solution led to  $\Delta^2$ -1,2,4-triazoline-5-thiones. Derivs. of  $\Delta^2$ -1,2,4-triazoline-5-thiones were obtained also in the cyclization of thiosemicarbazides with 3N HCl, 10% ethanolic HCl or CH<sub>3</sub>COOH. The cyclization of thiosemicarbazides in the presence of 3N HCl and 10% ethanolic HCl 1,3,4-thiadiazoles.

IT 91374-03-7P 110167-50-5P 185034-16-6P

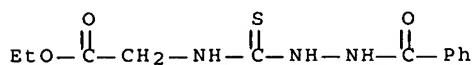
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of triazoles and thiadiazoles by cyclization of thiosemicarbazides)

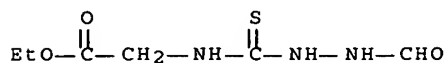
RN 91374-03-7 HCAPLUS

CN Benzoic acid, 2-[[ (2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI)  
(CA INDEX NAME)



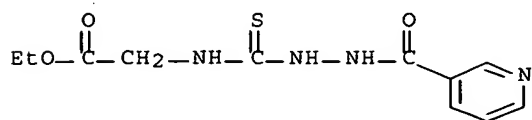
RN 110167-50-5 HCAPLUS

CN Glycine, N-[(2-formylhydrazino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 185034-16-6 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[ (2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 107 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

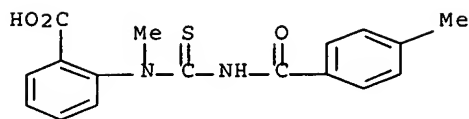
ACCESSION NUMBER: 1996:29319 HCAPLUS Full-text

DOCUMENT NUMBER: 124:202413

TITLE: Synthesis and properties of heteryl-substituted  
alkylidene-1,1-bisphosphonic acids. I. Synthesis and

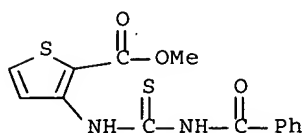
(CA INDEX NAME)

CA INDEX



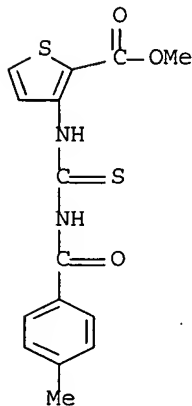
RN 178675-17-7 HCAPLUS

CN 2-Thiophenecarboxylic acid, 3-[[[(benzoylamino)thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



RN 178675-18-8 HCAPLUS

CN 2-Thiophenecarboxylic acid, 3-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 106 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:750121 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 126:47163

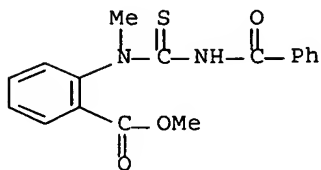
TITLE: The reactions of cyclization of thiosemicarbazide derivatives to 1,2,4-triazole or 1,3,4-thiadiazole system

AUTHOR(S): Dobosz, Maria; Pitucha, Monika; Wujec, Monika

CORPORATE SOURCE: School Medicine, Faculty Pharmacy, Lublin, 20-081, Pol.

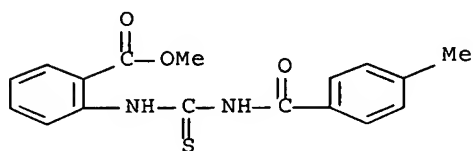
SOURCE: Acta Poloniae Pharmaceutica (1996), 53(1),

CN Benzoic acid, 2-[[[(benzoylamino)thioxomethyl]methylamino]-, methyl ester  
(9CI) (CA INDEX NAME)



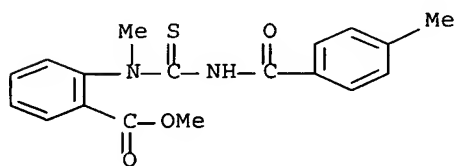
RN 178675-06-4 HCAPLUS

CN Benzoic acid, 2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



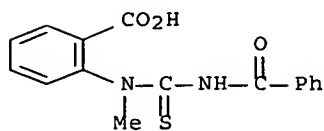
RN 178675-08-6 HCAPLUS

CN Benzoic acid, 2-[methyl[[[(4-methylbenzoyl)amino]thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



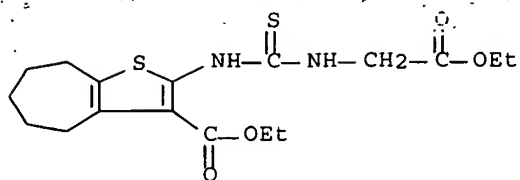
RN 178675-11-1 HCAPLUS

CN Benzoic acid, 2-[[[(benzoylamino)thioxomethyl]methylamino]- (9CI) (CA INDEX NAME)



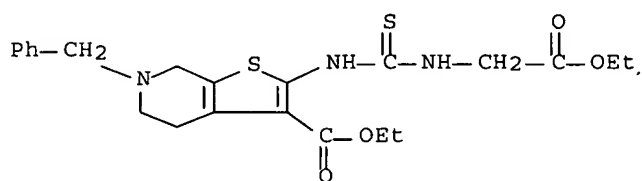
RN 178675-12-2 HCAPLUS

CN Benzoic acid, 2-[methyl[[[(4-methylbenzoyl)amino]thioxomethyl]amino]- (9CI)



RN 188250-67-1 HCAPLUS

CN Thieno[2,3-c]pyridine-3-carboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-6-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 105 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:331992 HCAPLUS Full-text

DOCUMENT NUMBER: 125:86576

TITLE: Novel heterocycles derived from substituted aroylthioureas: synthesis of 3,1-benzothiazin-4-ones, thieno[3,2-d][1,3]thiazin-4-ones and 1,2,4-thiadiazolo[2,3-a][3,1]benzothiazin-5-ones

AUTHOR(S): Guetschow, M.

CORPORATE SOURCE: Inst. of Pharmacy, Univ. Leipzig, Leipzig, D-04103, Germany

SOURCE: Journal of Heterocyclic Chemistry (1996), 33(2), 355-360

CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER: HeteroCorporation

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 07 Jun 1996

AB A series of heterocyclic aroylthioureas have been prepared and investigated as starting materials for ring closure reactions. The formation of several new 3,1-benzothiazin-4-ones and thieno[3,2-d][1,3]thiazin-4-ones (via cyclocondensation reactions) is reported. Oxidative cyclizations were carried out to produce Me benzothiazole-4-carboxylates (via formation of an S-C bond) as well as 1,2,4-thiadiazolo-[2,3-a][3,1]benzothiazin-5-ones (via formation of an S-N bond).

IT 150920-62-0P 178675-06-4P 178675-08-6P  
178675-11-1P 178675-12-2P 178675-17-7P  
178675-18-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

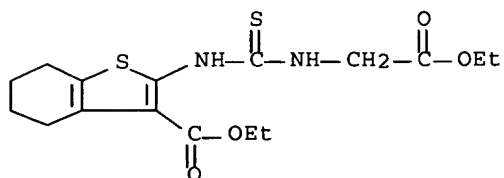
(preparation of benzothiazinones, thienothiazinones and thiadiazolobenzothiazinones by cyclization of aroylthioureas)

RN 150920-62-0 HCAPLUS

(cyclization of heteroarom. aminonitriles with  
isothiocyanateacetate)

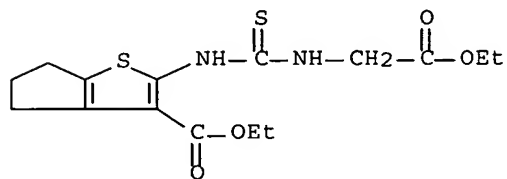
RN 85716-93-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI)  
 (CA INDEX NAME)



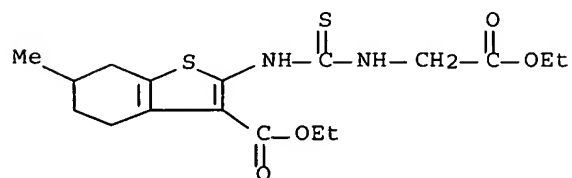
RN 188250-64-8 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-5,6-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 188250-65-9 HCAPLUS

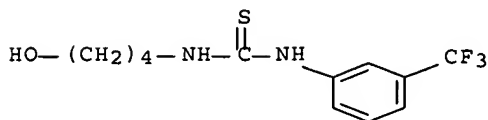
CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-6-methyl-, ethyl ester (9CI) (CA INDEX NAME)



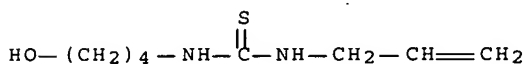
RN 188250-66-0 HCAPLUS

CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-5,6,7,8-tetrahydro-, ethyl ester (9CI)  
 (CA INDEX NAME)

RN 200337-25-3 HCAPLUS  
 CN Thiourea, N-(4-hydroxybutyl)-N'-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT 200337-26-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of iminothiazepines via cyclization of  
 (hydroxybutyl)thioureas)  
 RN 200337-26-4 HCAPLUS  
 CN Thiourea, N-(4-hydroxybutyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 104 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:136417 HCAPLUS Full-text

DOCUMENT NUMBER: 126:225267

TITLE: Reagents for new heteroannulation reactions. Part II:  
Isothiocyanates

AUTHOR(S): Sauter, F.; Frohlich, J.; Chowdhury, A. Z. M.  
 Shaifullah; Hametner, C.

CORPORATE SOURCE: Inst. Org. Chem., Vienna Univ. Technol., Vienna,  
 A-1060, Austria

SOURCE: Acta Chimica Slovenica (1996), 43(4),  
 365-384

CODEN: ACSLE7; ISSN: 1318-0207

PUBLISHER: Slovenian Chemical Society

DOCUMENT TYPE: Journal

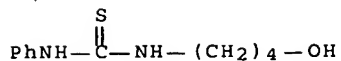
LANGUAGE: English

ED Entered STN: 01 Mar 1997

AB Reactions of Et isothiocyanatoacetate with various heteroarom. 2-aminonitriles, e.g., anthranilonitrile, gave cyclization of a pyrimidine ring and concomitant fusion of an imidazo moiety. E.g., imidazoquinazolinone I was prepared. Thus, annulations of an imidazo[1,2-c]pyrimido moiety to a variety of parent systems could be achieved by one-pot reactions, giving smooth access to a variety of novel and known heterocyclic systems.

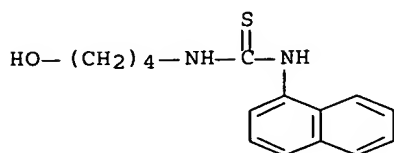
IT 85716-93-4P 188250-64-8P 188250-65-9P  
 188250-66-0P 188250-67-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)



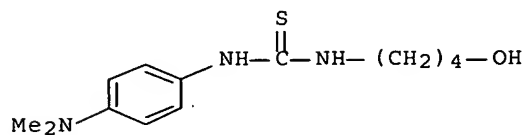
RN 200337-21-9 HCAPLUS

CN Thiourea, N-(4-hydroxybutyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



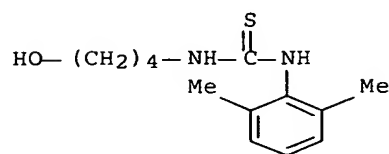
RN 200337-22-0 HCAPLUS

CN Thiourea, N-[4-(dimethylamino)phenyl]-N'-(4-hydroxybutyl)- (9CI) (CA INDEX NAME)



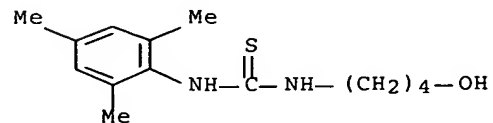
RN 200337-23-1 HCAPLUS

CN Thiourea, N-(2,6-dimethylphenyl)-N'-(4-hydroxybutyl)- (9CI) (CA INDEX NAME)



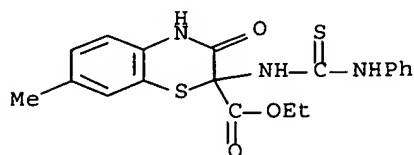
RN 200337-24-2 HCAPLUS

CN Thiourea, N-(4-hydroxybutyl)-N'-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



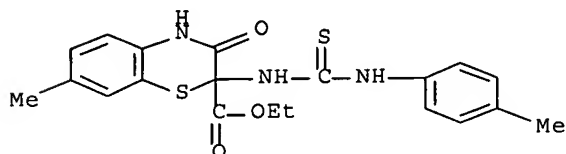


ethyl-ester (9CI) (CA INDEX NAME)



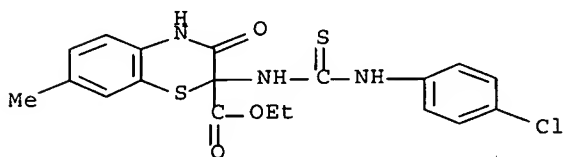
RN 145586-60-3 HCAPLUS

CN 2H-1,4-Benzothiazine-2-carboxylic acid, 3,4-dihydro-7-methyl-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 145586-61-4 HCAPLUS

CN 2H-1,4-Benzothiazine-2-carboxylic acid, 2-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-3,4-dihydro-7-methyl-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 123 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:59638 HCAPLUS Full-text

DOCUMENT NUMBER: 118:59638

TITLE: A simple synthesis of 3-substituted 1-amino-2-thioxo-4-imidazolidinones, isolation of the intermediates, N-amino-N-ethoxycarbonylmethyl-N'-aralkylthioureas

AUTHOR(S): Kwon, Soon Kyoung; Park, Myoung Suk

CORPORATE SOURCE: Coll. Pharm., Duksung Women's Univ., Seoul, 132-714, S. Korea

SOURCE: Bulletin of the Korean Chemical Society (1992), 13(5), 526-8

CODEN: BKCSDE; ISSN: 0253-2964

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 118:59638

ED Entered STN: 16 Feb 1993

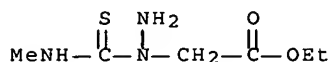
AB 1-Aminothiohydantoin deriva. I (R = Me, allyl, cyclohexyl, 4-COC<sub>6</sub>H<sub>4</sub>, CH<sub>2</sub>Ph, Bz, COC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-4, 2-naphthyl) were prepared in good yields by the reaction of RNCS with NH<sub>2</sub>NHCH<sub>2</sub>CO<sub>2</sub>Et·HCl in CH<sub>2</sub>Cl<sub>2</sub> containing Et<sub>3</sub>N. The intermediates, RNHCSN(NH<sub>2</sub>)CH<sub>2</sub>CO<sub>2</sub>Et, which were formed during the reaction and could be transformed into the appropriate 1-aminothiohydantoins, were isolated and characterized.

IT 145354-42-3P 145354-43-4P 145354-44-5P  
145354-45-6P 145354-46-7P 145354-47-8P  
145354-48-9P 145354-49-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

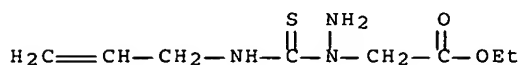
RN 145354-42-3 HCAPLUS

CN Acetic acid, [1-[(methylamino)thioxomethyl]hydrazino]-, ethyl ester (9CI)  
(CA INDEX NAME)



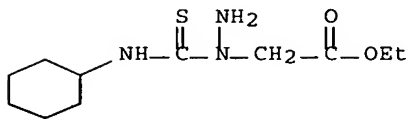
RN 145354-43-4 HCAPLUS

CN Acetic acid, [1-[(2-propenylamino)thioxomethyl]hydrazino]-, ethyl ester  
(9CI) (CA INDEX NAME)



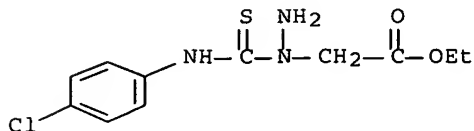
RN 145354-44-5 HCAPLUS

CN Acetic acid, [1-[(cyclohexylamino)thioxomethyl]hydrazino]-, ethyl ester  
(9CI) (CA INDEX NAME)

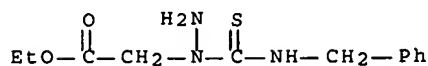


RN 145354-45-6 HCAPLUS

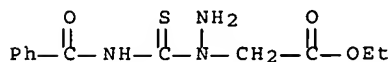
CN Acetic acid, [1-[(4-chlorophenyl)amino]thioxomethyl]hydrazino]-, ethyl  
ester (9CI) (CA INDEX NAME)



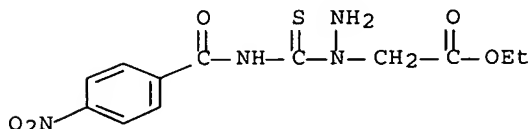
RN 145354-46-7 HCAPLUS  
 CN Acetic acid, [1-[(phenylmethyl)amino]thioxomethyl]hydrazino]-, ethyl ester (9CI) (CA INDEX NAME)



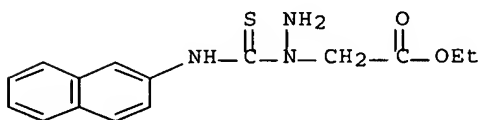
RN 145354-47-8 HCAPLUS  
 CN Acetic acid, [1-[(benzoylamino)thioxomethyl]hydrazino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 145354-48-9 HCAPLUS  
 CN Acetic acid, [1-[(4-nitrobenzoyl)amino]thioxomethyl]hydrazino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 145354-49-0 HCAPLUS  
 CN Acetic acid, [1-[(2-naphthalenylamino)thioxomethyl]hydrazino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 124 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:59260 HCAPLUS Full-text  
 DOCUMENT NUMBER: 116:59260  
 TITLE: Bis basic substituted diaminobenzobisthiazoles as potential antiarthritic agents  
 AUTHOR(S): Cullen, Ernest; Becker, Reinhold; Freter, Kurt;

CORPORATE SOURCE: LeClerq, Thelma; Possanza, Genus; Wong, Hin Chor  
 Dep. Med. Chem., Boehringer Ingelheim Pharma, Inc.,  
 Ridgefield, CT, 06877, USA  
 SOURCE: Journal of Medicinal Chemistry (1992),  
 35(2), 350-61  
 CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 21 Feb 1992

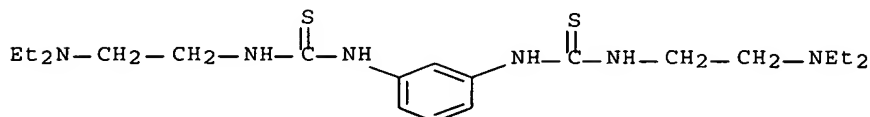
AB A series of benzobisthiazoles, e.g. I [R = NHC(=S)CH<sub>2</sub>NEt<sub>2</sub>, NHC(=S)CH<sub>2</sub>N(CH<sub>2</sub>CH<sub>2</sub>OEt)<sub>2</sub>, NHC(=S)CH<sub>2</sub>R<sub>3</sub>, R<sub>1</sub> = R<sub>2</sub> = H, R<sub>3</sub> = 1-piperazinyl, etc.; R = NEtC(=S)CH<sub>2</sub>NEt<sub>2</sub>, R<sub>1</sub> = Br, R<sub>2</sub> = H; NHC(=S)CH<sub>2</sub>NEt<sub>2</sub>, R<sub>1</sub> = R<sub>2</sub> = Cl, etc.], were prepared and screened for antiinflammatory activity in the carrageenan paw edema and adjuvant arthritis tests. Thus, amination of I (R = NHC(=S)CH<sub>2</sub>Cl, R<sub>1</sub> = R<sub>2</sub> = H) with NEt<sub>2</sub> in dioxane gave II (R = NHC(=S)CH<sub>2</sub>NEt<sub>2</sub>, R<sub>1</sub> = R<sub>2</sub> = H) (II) in 50% yield as well as a monoacylated product. II was found to inhibit the swelling of the injected paw in the prophylactic adjuvant arthritis model with an ED<sub>50</sub> of 2.3 mg/kg orally. As with most compds. of this series, II was inactive in the acute model of inflammation, such as paw edema; like steroids, it showed activity in the granuloma pouch assay but did not inhibit cyclooxygenase, indicating a mode of action different from the classical nonsteroidal antiinflammatory drugs. At doses higher than those producing antiinflammatory activity, II had some immunoregulating properties.

IT 137697-51-9P 137697-52-0P 137697-53-1P  
137697-54-2P 137697-55-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and oxidative cyclization of)

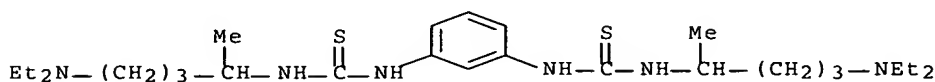
RN 137697-51-9 HCAPLUS

CN Thiourea, N,N''-1,3-phenylenebis[N'-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



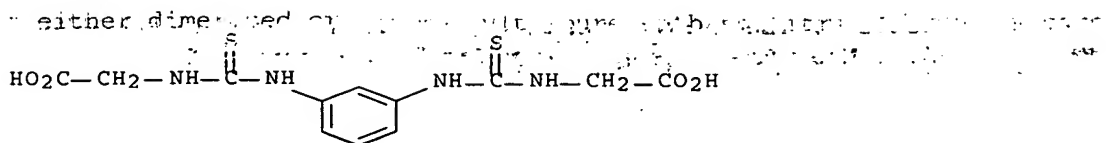
RN 137697-52-0 HCAPLUS

CN Thiourea, N,N''-1,3-phenylenebis[N'-[4-(diethylamino)-1-methylbutyl]- (9CI) (CA INDEX NAME)



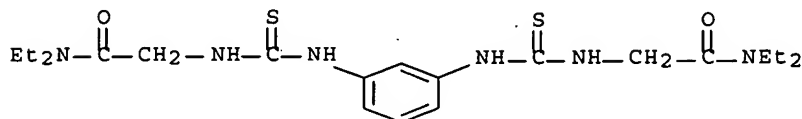
RN 137697-53-1 HCAPLUS

CN Glycine, N,N''-[1,3-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



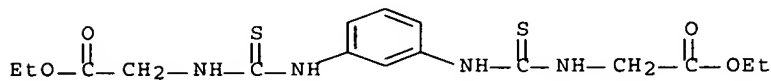
RN 137697-54-2 HCAPLUS

CN Acetamide, 2,2'-[1,3-phenylenebis(iminocarbonothioylimino)]bis[N,N-diethyl-  
(9CI) (CA INDEX NAME)



RN 137697-55-3 HCAPLUS

CN Glycine, N,N'-[1,3-phenylenebis(iminocarbonothioyl)]bis-, diethyl ester  
(9CI) (CA INDEX NAME)



L49 ANSWER 125 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:580725 HCAPLUS Full-text

DOCUMENT NUMBER: 119:180725

TITLE: Synthesis and activity in cognition-related tests of novel 2-benzoylamino-4-oxoquinazolines

AUTHOR(S): Levin, J. I.; Fanshawe, W. J.; Epstein, J. W.; Beer, B.; Bartus, R. T.; Dean, R. L., III

CORPORATE SOURCE: American Cyanamid Co., Med. Res. Div., Pearl River, NY, 10965, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (1992), 2(4), 349-52

CODEN: BMCLE8; ISSN: 0960-894X

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 30 Oct 1993

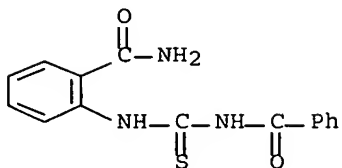
AB A series of 1-alkyl and 3-alkyl-2-benzoylamino-4-oxoquinazolines, e.g. I, were prepared and have activity in tests for cognition enhancement in rats and mice. Thus, oxidation/cyclization of PhCONHCSNMeC<sub>6</sub>H<sub>4</sub>CONH<sub>2</sub>-2 gave 27% I.

IT 115934-14-0 134690-60-1 134690-61-2  
134690-62-3 134690-65-6 134690-66-7  
134690-67-8 134690-69-0 134690-70-3  
135546-76-8 140617-14-7

RL: RCT (Reactant); RACT (Reactant or reagent)  
(oxidative cyclization of)

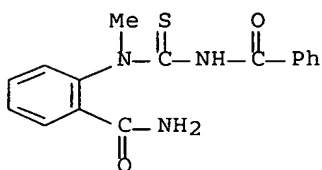
RN 115934-14-0 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



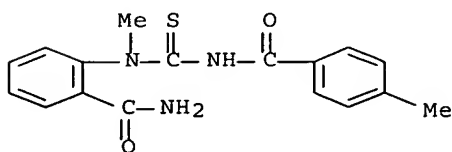
RN 134690-60-1 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]methylamino]thioxomethyl]- (9CI) (CA INDEX NAME)



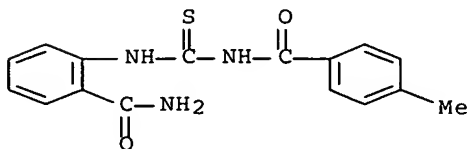
RN 134690-61-2 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]methylamino]thioxomethyl]-4-methyl- (9CI) (CA INDEX NAME)



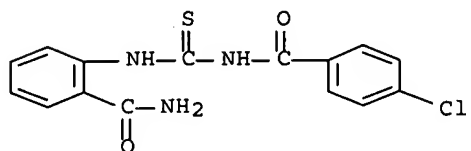
RN 134690-62-3 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]amino]thioxomethyl]-4-methyl- (9CI) (CA INDEX NAME)



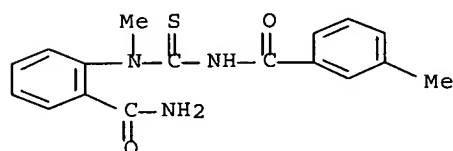
RN 134690-65-6 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]amino]thioxomethyl]-4-chloro- (9CI) (CA INDEX NAME)



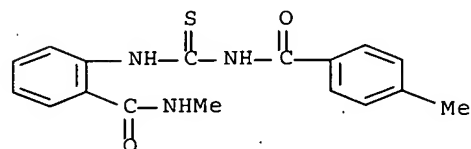
RN 134690-66-7 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]methylamino]thioxomethyl]-3-methyl- (9CI) (CA INDEX NAME)



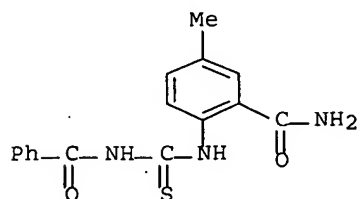
RN 134690-67-8 HCAPLUS

CN Benzamide, N-methyl-2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



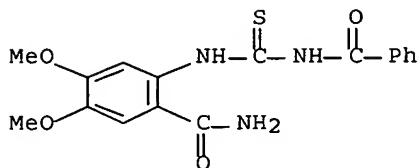
RN 134690-69-0 HCAPLUS

CN Benzamide, 2-[[[(benzoylamino)thioxomethyl]amino]-5-methyl- (9CI) (CA INDEX NAME)



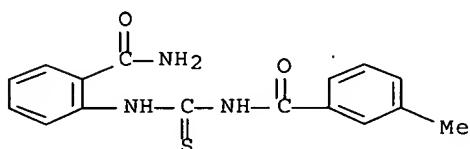
RN 134690-70-3 HCAPLUS

Benzamide, 2-[[[(benzoylamino)thioxomethyl]amino]-4,5-dimethoxy- (9CI) (CA INDEX NAME)



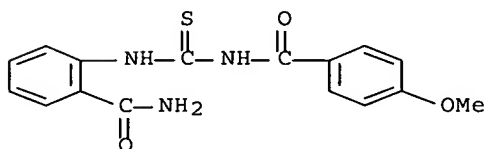
RN 135546-76-8 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]amino]thioxomethyl]-3-methyl- (9CI) (CA INDEX NAME)



RN 140617-14-7 HCAPLUS

CN Benzamide, N-[[[2-(aminocarbonyl)phenyl]amino]thioxomethyl]-4-methoxy- (9CI) (CA INDEX NAME)

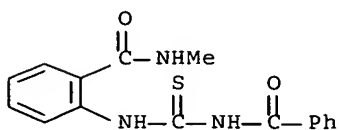


IT 134690-68-9P 140617-16-9P 140617-18-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and methylation of)

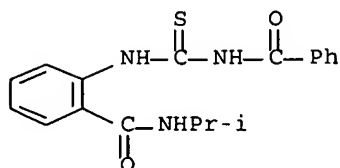
RN 134690-68-9 HCAPLUS

CN Benzamide, 2-[[[(benzoylamino)thioxomethyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

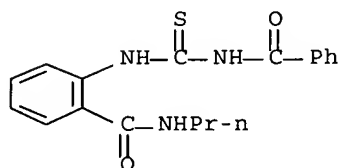




RN 140617-16-9 HCAPLUS  
 CN Benzamide, 2-[[[(benzoylamino)thioxomethyl]amino]-N-(1-methylethyl)- (9CI)  
 (CA INDEX NAME)



RN 140617-18-1 HCAPLUS  
 CN Benzamide, 2-[[[(benzoylamino)thioxomethyl]amino]-N-propyl- (9CI) (CA  
 INDEX NAME)



L49 ANSWER 126 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:233991 HCAPLUS Full-text

DOCUMENT NUMBER: 118:233991

TITLE: Thermal behavior of some 2-(3-R-thioureido)benzonitriles

AUTHOR(S): Pazdera, P.; Meindl, J.; Novacek, E.

CORPORATE SOURCE: Fac. Nat. Sci., Masaryk Univ., Brno, CS-611 37, Czech.

SOURCE: Chemical Papers (1992), 46(5), 322-8

CODEN: CHPAEG; ISSN: 0366-6352

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 118:233991

ED Entered STN: 12 Jun 1993

AB The thermal behavior of some 2-(3-organothioureido)benzonitriles, e.g., I (R = cyclohexyl, PhCH<sub>2</sub>, Ph, R<sub>1</sub> = H), above their m.p. without solvent or in boiling aqueous DMF was followed. The primary and secondary alkyl or aryl derivs. afforded cyclization-Dimroth rearrangement products 4-(organoamino)-2-thioxo-1,2-dihydroquinazolines II (same R). Compound I (R = Me<sub>3</sub>C, R<sub>1</sub> = H) eliminated methylpropene and cyclized to 4-amino-2-thioxo-1,2-dihydroquinazoline. 2-(3-Adamantylthioureido)benzonitrile under similar conditions decomposed to aminoadamantane and 2-isothiocyanatobenzonitrile. 2-(3,3-Diorganothioureido)benzonitriles I [R = R<sub>1</sub> = Me, Et, Bu, (CH<sub>2</sub>)<sub>2</sub>OH, RR<sub>1</sub> = (CH<sub>2</sub>)<sub>4</sub>, (CH<sub>2</sub>)<sub>5</sub>, (CH<sub>2</sub>)<sub>2</sub>O(CH<sub>2</sub>)<sub>2</sub>] under similar conditions eliminated alkene followed by cyclization and Dimroth rearrangement to give 4-(organoamino)-2-thioxo-1,2-dihydroquinazolines II [R = Me, Et, Bu, H, CH<sub>2</sub>CH<sub>2</sub>CH:CH<sub>2</sub>, (CH<sub>2</sub>)<sub>3</sub>CH:CH<sub>2</sub>, (CH<sub>2</sub>)<sub>2</sub>OCH:CH<sub>2</sub>, resp.]. Heating 2-(3,3-

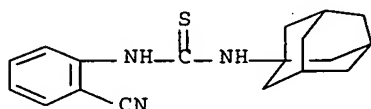
-dimethylthioureido)benzonitrile formed a carbene that either dimerized or polymerized, depending on conditions.

IT 147408-68-2F

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and thermal decomposition of)

RN 147408-68-2 HCAPLUS

CN Thiourea, N-(2-cyanophenyl)-N'-tricyclo[3.3.1.1<sup>3,7</sup>]dec-1-yl- (9CI) (CA INDEX NAME)

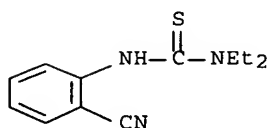


IT 135834-97-8P 135835-00-6P 135835-01-7P  
147408-59-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation, thermal anal., and intramol. thermal cyclization -rearrangement of)

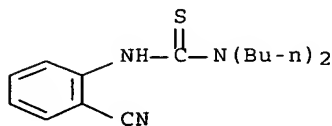
RN 135834-97-8 HCAPLUS

CN Thiourea, N'-(2-cyanophenyl)-N,N-diethyl- (9CI) (CA INDEX NAME)



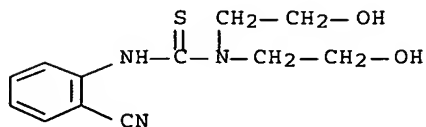
RN 135835-00-6 HCAPLUS

CN Thiourea, N,N-dibutyl-N'-(2-cyanophenyl)- (9CI) (CA INDEX NAME)

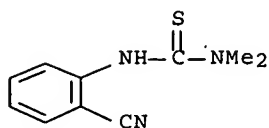


RN 135835-01-7 HCAPLUS

CN Thiourea, N'-(2-cyanophenyl)-N,N-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)

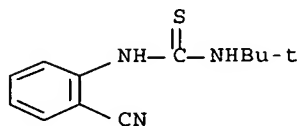


RN 147408-59-1 HCAPLUS  
CN Thiourea, N'-(2-cyanophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



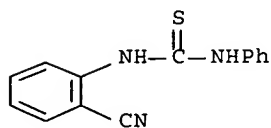
IT 127024-78-6  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(thermal anal. and intramol. thermal cyclization of)

RN 127024-78-6 HCAPLUS  
CN Thiourea, N-(2-cyanophenyl)-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

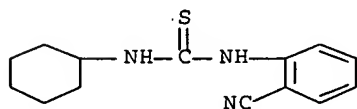


IT 92165-07-6 127024-74-2 127024-77-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(thermal anal. and intramol. thermal cyclization  
-rearrangement of)

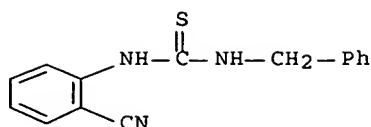
RN 92165-07-6 HCAPLUS  
CN Thiourea, N-(2-cyanophenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



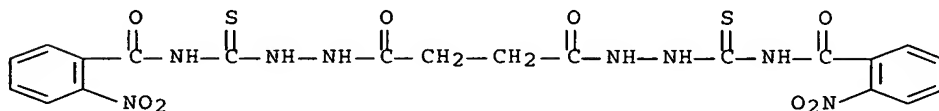
RN 127024-74-2 HCAPLUS  
CN Thiourea, N-(2-cyanophenyl)-N'-cyclohexyl- (9CI) (CA INDEX NAME)



RN 127024-77-5 HCAPLUS  
CN Thiourea, N-(2-cyanophenyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

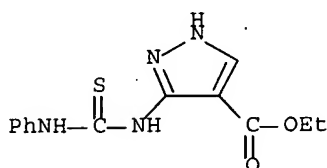


L49 ANSWER 127 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:571322 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 117:171322  
 TITLE: Synthesis of bis(1-acetyl-4-arylothiosemicarbazide)s and their derivatives  
 AUTHOR(S): Feng, Xiaoming; Chen, Rong; Yang, Weidong; Zhang, Ziyi  
 CORPORATE SOURCE: Dep. Chem., Southwest Teach. Univ., Chongqing, 630715, Peop. Rep. China  
 SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1992), 13(2), 187-90  
 CODEN: KTHPDM; ISSN: 0251-0790  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 OTHER SOURCE(S): CASREACT 117:171322  
 ED Entered STN: 01 Nov 1992  
 AB A series of new title compds., (CH<sub>2</sub>CONHNHCSNHCOAr)<sub>2</sub> [I; Ar = (un)substituted Ph, PhCH:CH, 2-furyl], were synthesized by condensation of aroyl isothiocyanates with succinylhydrazine in acetonitrile. Some bis(3-methenyl-4-aryol-1,2,4-triazoline-5-thiones) II were obtained in good yields (42.7% .apprx. 96.2%) through the cyclization of I with 1 mol/L K<sub>2</sub>CO<sub>3</sub> solution. The structures of compds. I and II were characterized by elemental anal., IR, <sup>1</sup>H NMR and MS. Antibacterial activity tests of these compds. against B. Subtills and E. Coli show that same compds. are effective.  
 IT 143464-67-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 143464-67-9 HCAPLUS  
 CN Butanedioic acid, bis[2-[[2-(2-nitrobenzoyl)amino]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

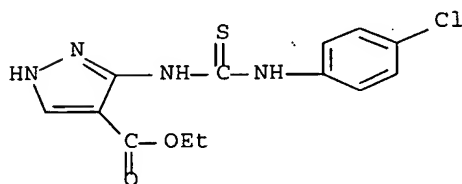


L49 ANSWER 128 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:235581 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 116:235581  
 TITLE: Synthesis and pharmacological properties of pyrazolotriazolopyrimidine derivatives  
 AUTHOR(S): Russo, F.; Guccione, S.; Romeo, S.; Monsu'Scolaro, L.; Pucci, S.; Caruso, A.; Cutuli, V.; Amico Roxas, M.

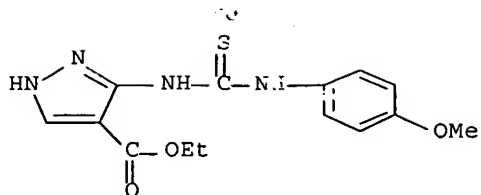
CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Catania, Catania, 95125, Italy  
 SOURCE: European Journal of Medicinal Chemistry (1992), 27(1), 73-80  
 CODEN: EJMCA5; ISSN: 0223-5234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 116:235581  
 ED Entered STN: 13 Jun 1992  
 AB As a part of research on anti-inflammatory analgesic compds., pyrazolotriazolopyrimidines I (R = H, 4-Me, 4-OMe, 4-Br, 2-, 4-Cl, 3-, 4-F; X = O) were prepared by the cyclization of the corresponding 2-phenylamino-3-aminopyrazolo[3,4-d]pyrimidin-4-ones II (X = O) with tri-Et orthoformate, in the presence of p-toluenesulfonic acid. The results of the phamracol. screening indicate that some I and II (X = O, S) which were tested, especially I (R = 4-Cl, X = O) and II (R = 4-OMe, X = O), showed good anti-inflammatory activity associated with non-narcotic analgesic properties and a remarkable systemic and gastric tolerance.  
 IT 107466-14-8P 107466-15-9P 138480-74-7P  
141300-12-1P 141300-13-2P 141300-14-3P  
141300-15-4P 141300-16-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, with hydrazine)  
 RN 107466-14-8 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 107466-15-9 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

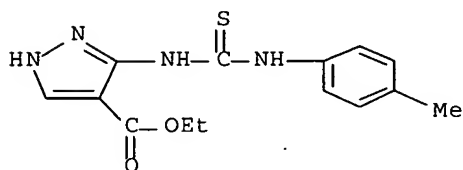


RN 138480-74-7 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



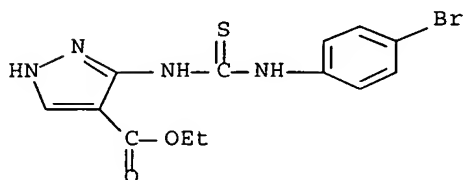
RN 141300-12-1 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



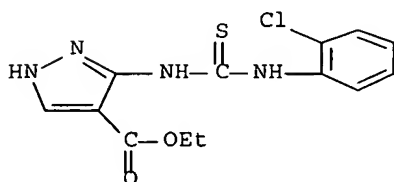
RN 141300-13-2 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-bromophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



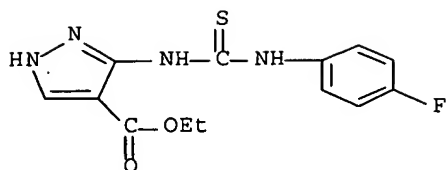
RN 141300-14-3 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(2-chlorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

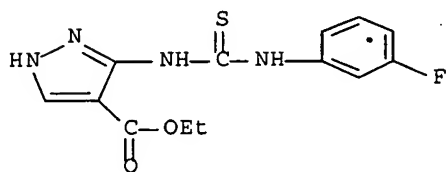


RN 141300-15-4 HCAPLUS

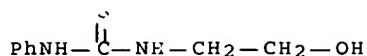
CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-fluorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 141300-16-5 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(3-fluorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 129 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:76996 HCAPLUS Full-text  
 DOCUMENT NUMBER: 120:76996  
 TITLE: Some  $\beta$ -substituted ethylureas and ethylthioureas and syntheses based on them  
 AUTHOR(S): Aliev, N. A.; Hodjaeva, M.; Davlonov, A.; Aflyatunova, R. G.; Buckareva, T. Yu.; Krystallovich, L. E.; Abdullaev, U.; Abdullaev, N.  
 CORPORATE SOURCE: Inst. Khim. Rastit. Veshchestv, Uzbekistan  
 SOURCE: Uzbekskii Khimicheskii Zhurnal (1992), (3-4), 63-7  
 CODEN: UZKZAC; ISSN: 0042-1707  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 120:76996  
 ED Entered STN: 19 Feb 1994  
 AB Carbamoylation of  $XCH_2CH_2NH_2$  ( $X = CN, OH$ ) with  $ArNCY$  [ $Ar = e.g., \alpha$ -naphthyl, (un)substituted Ph;  $Y = O, S$ ] afforded  $ArNHCYNHCH_2CH_2X$  in up to 97.4% yield; carbamoylation of  $(XCH_2CH_2)_2NH$  afforded the corresponding  $ArNHCYN(CH_2CH_2X)_2$  in up to 92.7% yield. Acylation of  $PhNHCSNHCH_2CH_2OH$  with  $Ac_2O$  resulted in intramol. cyclization to imidazolidinethione I (31%); similarly, reaction of  $PhNHCSN(CH_2CH_2OH)_2$  with  $PhNCS$  afforded morpholinothiurea II (76%).  
 IT 102-12-5, N-Phenyl-N'- $\beta$ -hydroxyethylthiourea  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (acylation/intramol. cyclization of)  
 RN 102-12-5 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-phenyl- (9CI) (CA INDEX NAME)

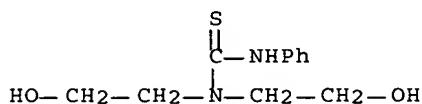


IT 2740-67-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(intramol. cyclization of)

RN 2740-67-2 HCAPLUS

CN Thiourea, N,N-bis(2-hydroxyethyl)-N'-phenyl- (9CI) (CA INDEX NAME)

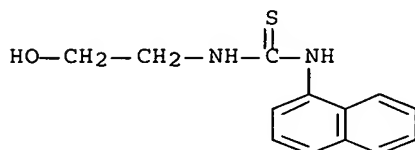


IT 52266-64-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and acylation of)

RN 52266-64-5 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



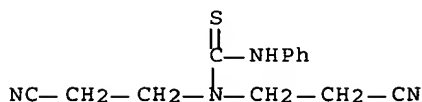
IT 30381-11-4P 59669-99-7P 152092-00-7P

152092-01-8P 152092-03-0P 152092-05-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 30381-11-4 HCAPLUS

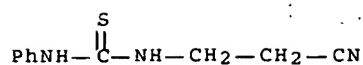
CN Thiourea, N,N-bis(2-cyanoethyl)-N'-phenyl- (9CI) (CA INDEX NAME)



RN 59669-99-7 HCAPLUS

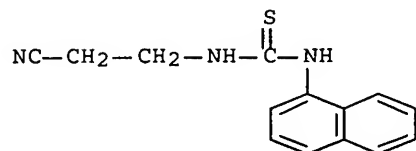
CN Thiourea, N-(2-cyanoethyl)-N'-phenyl- (9CI) (CA INDEX NAME)





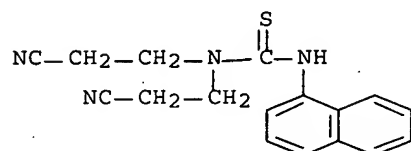
RN 152092-00-7 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



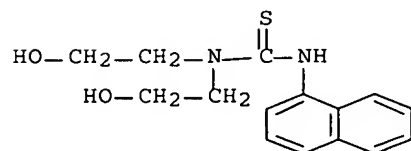
RN 152092-01-8 HCAPLUS

CN Thiourea, N,N-bis(2-cyanoethyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



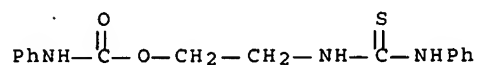
RN 152092-03-0 HCAPLUS

CN Thiourea, N,N-bis(2-hydroxyethyl)-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)

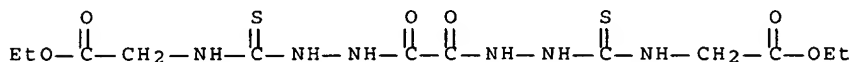


RN 152092-05-2 HCAPLUS

CN Thiourea, N-phenyl-N'-[2-[[ (phenylamino) carbonyl]oxy]ethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 130 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:323399 HCAPLUS Full-text  
 DOCUMENT NUMBER: 120:323399  
 TITLE: Synthesis of 4,4'-substituted 5,5'-mercapto-3,3'-bis(1,2,4,-triazoles) and 2,2'-substituted 5,5'-bis(1,3,4-thiadiazoles)  
 AUTHOR(S): Dobosz, Maria; Rekas, Jolanta  
 CORPORATE SOURCE: Dep. Org. Chem., Sch. Med., Lublin, 20081, Pol.  
 SOURCE: Acta Poloniae Pharmaceutica (1992), 49(5-6), 51-4  
 CODEN: APPHAX; ISSN: 0001-6837  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Polish  
 OTHER SOURCE(S): CASREACT 120:323399  
 ED Entered STN: 25 Jun 1994  
 AB Reaction of oxaldihydrazide with isothiocyanates gave 75-85% of the corresponding RNHCSNHNHCOCONHNHCSNHR (R = Ph, 4-MeC6H4, 4-MeOC6H4, 4-BrC6H4, PhCH2, cyclohexyl, Et, EtO2CCH2, CH2:CHCH2), which when reacted with 10% NaOH were converted in 77-86% yields into the corresponding I (R as above with HO2CCH2 replacing EtO2CCH2), and when reacted with AcOH, into the corresponding II (R as in I except CH2:CHCH2, 41-48% yields).  
 IT 155188-40-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and intramol. cyclization of)  
 RN 155188-40-2 HCAPLUS  
 CN Ethanedioic acid, bis[2-[[ (2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

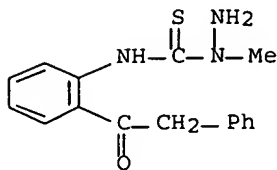


L49 ANSWER 131 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:235596 HCAPLUS Full-text  
 DOCUMENT NUMBER: 116:235596  
 TITLE: Synthesis of 5-benzyl-1,3,4-benzotriazepines from 2-isothiocyanatodeoxybenzoin  
 AUTHOR(S): Morgenstern, O.; Richter, P. H.; Ahrens, H.  
 CORPORATE SOURCE: Fachbereich Pharm., Ernst-Moritz-Arndt-Univ., Greifswald, O-2200, Germany  
 SOURCE: Pharmazie (1992), 47(1), 25-8  
 CODEN: PHARAT; ISSN: 0031-7144  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 ED Entered STN: 13 Jun 1992  
 AB The reaction of 2-isothiocyanatodeoxybenzoin, prepared from 2-aminodeoxybenzoin and CSCL2 in good yield, with 2-aminoethanol or MeNHNH2 supplied a 4-hydroxy-1,2,3,4-tetrahydroquinazoline and an open-chained thiosemicarbazide derivative, resp. On heating, both these compds. react with loss of water. The latter forms 5-benzyl-3-methyl-2-thioxo-2,3-dihydro-1H-1,3,4-benzotriazepine which can be alkylated at S and transformed into the 2-oxo analog.  
 IT 141071-23-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); REACT (Reactant or reagent)  
(preparation and cyclization of)

RN 141071-23-0 HCAPLUS

CN Hydrazinecarbothioamide, 1-methyl-N-[2-(phenylacetyl)phenyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 132 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:142963 HCAPLUS Full-text

DOCUMENT NUMBER: 114:142963

TITLE: A simple and efficient synthesis of 9-substituted guanines. Cyclodesulfurization of 1-substituted 5-[(thiocarbamoyl)amino]imidazole-4-carboxamides under aqueous basic conditions

AUTHOR(S): Alhede, Boerge; Clausen, Finn Priess; Juhl-Christensen, Joergen; McCluskey, Klaus K.; Preikschat, Herbert F.

CORPORATE SOURCE: Dep. Chem., GEA Ltd. Pharm. Manuf. Co., Copenhagen, DK-2000, Den.

SOURCE: Journal of Organic Chemistry (1991), 56(6), 2139-43  
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:142963

ED Entered STN: 19 Apr 1991

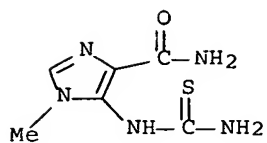
AB 5-Aminoimidazole-4-carboxamide (I; R = R1 = H) is 1-alkylated by an improved method. The resulting alkylimidazolecarboxamides, e.g. I (R = Me, Et, Pr, PhCH2, HOCH2CH2O, R1 = H), are converted to the corresponding thiocarbamoylcarboxamides, e.g. I (R = same, R1 = CSNH2). These compds. are ring closed under alkaline conditions to 9-substituted guanines II (R = same) in very high yields by treatment with heavy-metal salts in aqueous NaOH, or, in lower yields, by S-oxidation with H2O2 or NaBO3 in aqueous NaOH.

IT 131490-67-0P 131490-68-1P 131490-69-2P  
131490-70-5P 131490-71-6P 131490-72-7P

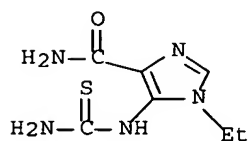
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and cyclodesulfurization of, in presence of heavy-metal salts)

RN 131490-67-0 HCAPLUS

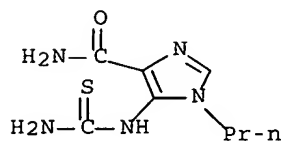
CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-methyl- (9CI) (CA INDEX NAME)



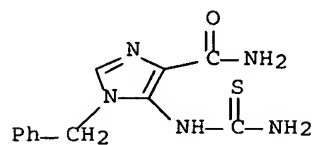
RN 131490-68-1 HCAPLUS  
 CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-ethyl- (9CI)  
 (CA INDEX NAME)



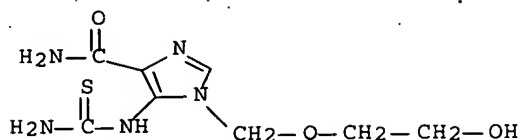
RN 131490-69-2 HCAPLUS  
 CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-propyl- (9CI)  
 (CA INDEX NAME)



RN 131490-70-5 HCAPLUS  
 CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

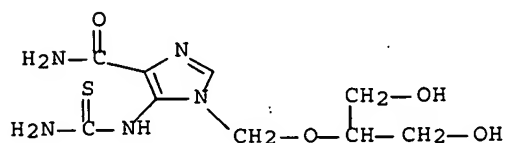


RN 131490-71-6 HCAPLUS  
 CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-[(2-hydroxyethoxy)methyl]- (9CI) (CA INDEX NAME)



RN 131490-72-7 HCAPLUS

CN 1H-Imidazole-4-carboxamide, 5-[(aminothioxomethyl)amino]-1-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]- (9CI) (CA INDEX NAME)

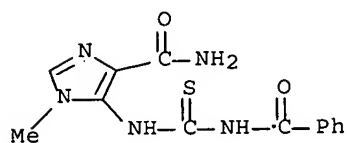


IT 131490-63-6P 131490-64-7P 131490-65-8P  
131490-66-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and debenzoylation of)

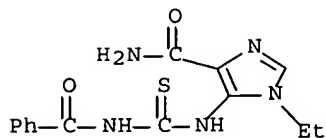
RN 131490-63-6 HCAPLUS

CN 1H-Imidazole-4-carboxamide, 5-[[[(benzoylamino)thioxomethyl]amino]-1-methyl-  
 (9CI) (CA INDEX NAME)



RN 131490-64-7 HCAPLUS

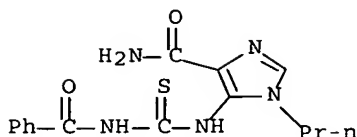
CN 1H-Imidazole-4-carboxamide, 5-[[[(benzoylamino)thioxomethyl]amino]-1-ethyl-  
 (9CI) (CA INDEX NAME)



RN 131490-65-8 HCAPLUS

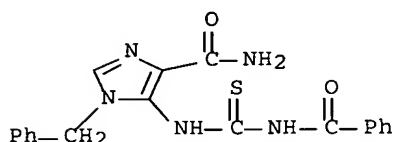
CN 1H-Imidazole-4-carboxamide, 5-[[[(benzoylamino)thioxomethyl]amino]-1-propyl-

(9CI) (CA INDEX NAME)



RN 131490-66-9 HCAPLUS

CN 1H-Imidazole-4-carboxamide, 5-[[[(benzoylamino)thioxomethyl]amino]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 133 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:235566 HCAPLUS Full-text

DOCUMENT NUMBER: 116:235566

TITLE: Synthesis of some new pyrazolo[3',4'-d]pyrimidine derivatives and their antibacterial activity

AUTHOR(S): Jyothikumari, K. R.; Rajasekharan, K. N.; Dhevendran, K.

CORPORATE SOURCE: Dep. Chem., Univ. Kerala, Thiruvananthapuram, 695 034, India

SOURCE: Journal of the Indian Chemical Society (1991), 68(10), 578-80

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 116:235566

ED Entered STN: 13 Jun 1992

AB Cyclocondensation of 3-amino-4-cyanopyrazoles I (R = H, Ph; R1 = H, SMe; R2 = H) with R3NCS (R3 = Ph, 4-R4C6H4; R4 = Me, Cl, OMe, OEt) in pyridine gave title compds. II in 65-78% yields. I (R = H, R1 = H, SMe; R2 = H) reacted with R3NCS (R3 as above) in the presence of NaOH to give I [R2 = C(S)NHR3], which on refluxing in EtOH in presence of NaOH gave II. Eight of the prepared compds. were tested for antibacterial activity. I [R = R1 = H, R2 = C(S)NHR3, R3 = Ph, 4-C6H4Cl] and II (R = H, R1 = H, SMe; R3 = 4-C6H4Me) showed activity.

IT 128854-08-0P 141212-78-4P 141212-80-8P

141212-81-9P 141212-82-0P 141212-83-1P

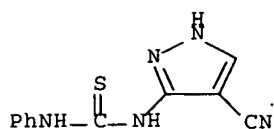
141212-84-2P 141212-85-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of, pyrazolopyrimidine derivative from)

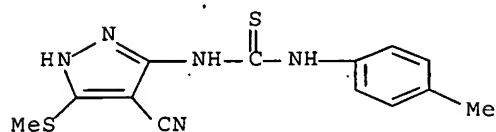
RN 128854-08-0 HCAPLUS

CN Thiourea, N-(4-cyano-1H-pyrazol-3-yl)-N'-phenyl- (9CI) (CA INDEX NAME)



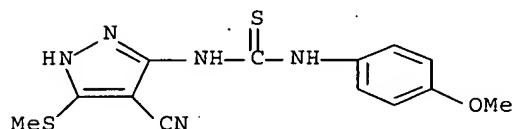
RN 141212-78-4 HCAPLUS

CN Thiourea, N-[4-cyano-5-(methylthio)-1H-pyrazol-3-yl]-N'-(4-methylphenyl)-  
(9CI) (CA INDEX NAME)



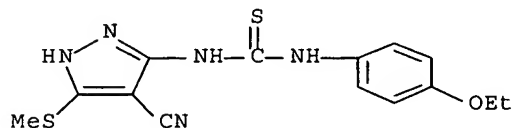
RN 141212-80-8 HCAPLUS

CN Thiourea, N-[4-cyano-5-(methylthio)-1H-pyrazol-3-yl]-N'-(4-methoxyphenyl)-  
(9CI) (CA INDEX NAME)



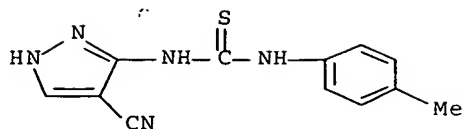
RN 141212-81-9 HCAPLUS

CN Thiourea, N-[4-cyano-5-(methylthio)-1H-pyrazol-3-yl]-N'-(4-ethoxyphenyl)-  
(9CI) (CA INDEX NAME)

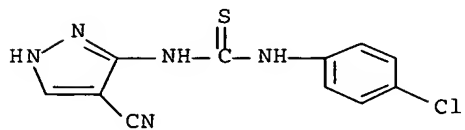


RN 141212-82-0 HCAPLUS

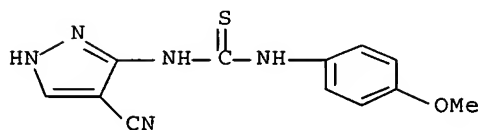
CN Thiourea, N-(4-cyano-1H-pyrazol-3-yl)-N'-(4-methylphenyl)- (9CI) (CA  
INDEX NAME)



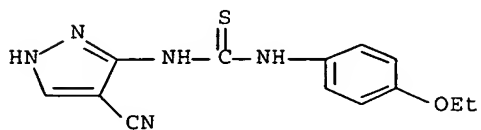
RN 141212-83-1 HCAPLUS  
 CN Thiourea, N-(4-chlorophenyl)-N'-(4-cyano-1H-pyrazol-3-yl)- (9CI) (CA  
 INDEX NAME)



RN 141212-84-2 HCAPLUS  
 CN Thiourea, N-(4-methoxyphenyl)-N'-(4-cyano-1H-pyrazol-3-yl)- (9CI) (CA  
 INDEX NAME)

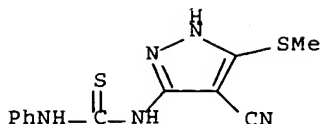


RN 141212-85-3 HCAPLUS  
 CN Thiourea, N-(4-ethoxyphenyl)-N'-(4-cyano-1H-pyrazol-3-yl)- (9CI) (CA  
 INDEX NAME)



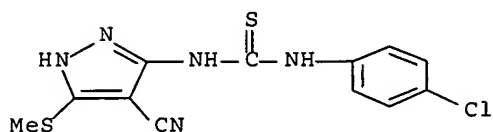
IT 141212-77-3P 141212-79-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, intramol. cyclization and antibacterial activity of)  
 RN 141212-77-3 HCAPLUS  
 CN Thiourea, N-[4-cyano-5-(methylthio)-1H-pyrazol-3-yl]-N'-phenyl- (9CI) (CA  
 INDEX NAME)





RN 141212-79-5 HCAPLUS

CN Thiourea, N-(4-chlorophenyl)-N'-[4-cyano-5-(methylthio)-1H-pyrazol-3-yl]-  
(9CI) (CA INDEX NAME)



L49 ANSWER 134 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:106228 HCAPLUS Full-text

DOCUMENT NUMBER: 116:106228

TITLE: Studies on quinazolinones. 3: Novel and efficient route to the synthesis of conformationally restricted analogs of ketanserin and SGB-1534 as antihypertensive agents

AUTHOR(S): Chern, Ji Wang; Shiau, Chia Yang; Lu, Guan Yu

CORPORATE SOURCE: Inst. Pharm., Natl. Def. Med. Cent., Taipei, Taiwan

SOURCE: Bioorganic & Medicinal Chemistry Letters (1991), 1(11), 571-4

CODEN: BMCLE8; ISSN: 0960-894X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 116:106228

ED Entered STN: 20 Mar 1992

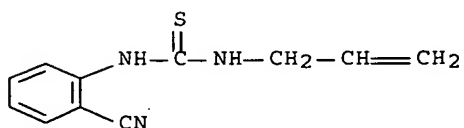
AB Bromocyclization of N-allyl quinazoline derivs., e.g. I and II with NBS results in the formation of 2,3-dihydroimidazo[1,2-c]quinazoline derivs., for example III and IV of which III is a potent antihypertensive agent.

IT 139047-60-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 139047-60-2 HCAPLUS

CN Thiourea, N-(2-cyanophenyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1992:83588 HCAPLUS Full-text

DOCUMENT NUMBER: 116:83588

TITLE: New pyrazole derivatives. IV. Preparation and cyclization of some acceptor-substituted N-(pyrazol-3-yl)thioureas

AUTHOR(S): Eisenaecher, T.; Pech, R.; Boehm, R.

CORPORATE SOURCE: Fachbereich Pharm., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, O-4050, Germany

SOURCE: Journal fuer Praktische Chemie (Leipzig) (1991), 333(3), 437-46

CODEN: JPCEAO; ISSN: 0021-8383

DOCUMENT TYPE: Journal

LANGUAGE: German

ED Entered STN: 06 Mar 1992

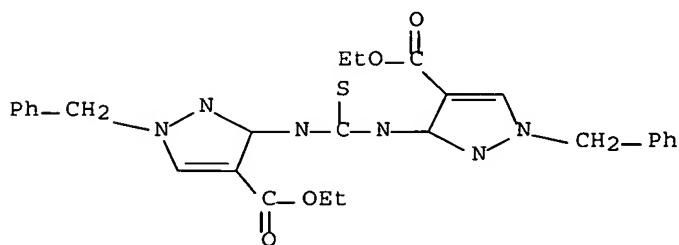
AB 3-Aminopyrazol-4-carboxylic acid derivs. were transformed by reaction with different isothiocyanates to N-(pyrazol-3-yl)-N'-substituted thioureas I (R = H, CH<sub>2</sub>Ph; R<sub>1</sub> = Ph, substituted Ph, Bz, XCO<sub>2</sub>Et; X = bond, CH<sub>2</sub>, CHCH<sub>2</sub>CHMe<sub>2</sub>). With R<sub>2</sub>NHNH<sub>2</sub> (R<sub>2</sub> = H, Ph) I (R = CH<sub>2</sub>Ph R<sub>1</sub> = NHR<sub>2</sub>) are obtained. I can be cyclized in basic solution to 4,5,6,7- tetrahydropyrazolo[3,4-d]pyrimidin-4-on-6-thiones which on alkylation form 6-alkylthio-4,5-dihydropyrazolo[3,4-d]pyrimidin-4-ones II (R<sub>3</sub> = alkyl). Methyl-N-(pyrazol-3-yl)-N-benzoylisothiourea reacts with EtNH<sub>2</sub> to form N-benzoyl-N'-ethyl-N''-(pyrazol-3-yl)guanidine which on treatment with NaH in DMF yields 6-benzoylamino-5-ethyl-4,5-dihydropyrazolo[3,4-d]pyrimidine- 4-one. On treatment with H<sub>2</sub>SO<sub>4</sub> I form new pyrazolothiazinones III (R<sub>4</sub> = Ph, substituted Ph) in low yields.

IT 136603-38-8P 138480-63-4P 138480-65-6P  
138480-66-7P 138480-67-8P 138480-69-0P  
138480-71-4P 138480-73-6P 138480-74-7P  
138480-75-8P 138480-76-9P 138480-77-0P  
138480-78-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 136603-38-8 HCAPLUS

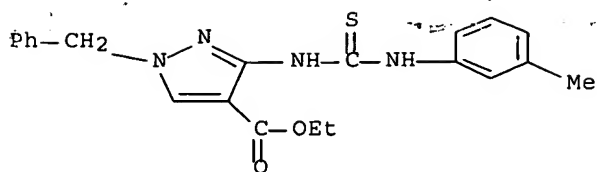
CN 1H-Pyrazole-4-carboxylic acid, 3,3'-(carbonothioyldiimino)bis[1-(phenylmethyl)-, diethyl ester (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

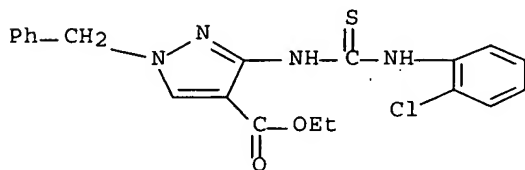
RN 138480-63-4 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(3-methylphenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



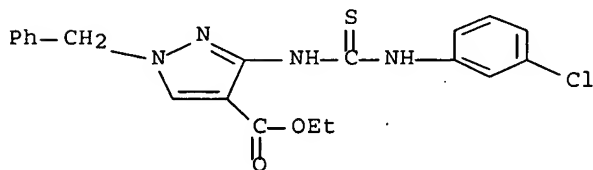
RN 138480-65-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(2-chlorophenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



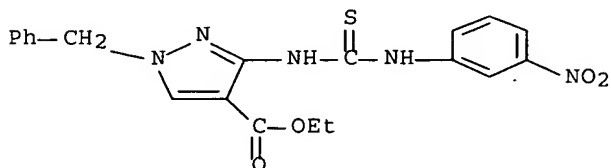
RN 138480-66-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(3-chlorophenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



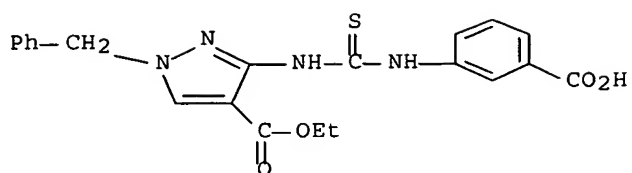
RN 138480-67-8 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(3-nitrophenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



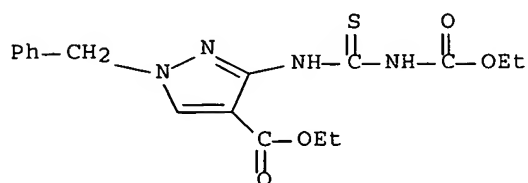
RN 138480-69-0 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(3-carboxyphenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, 4-ethyl ester (9CI) (CA INDEX NAME)



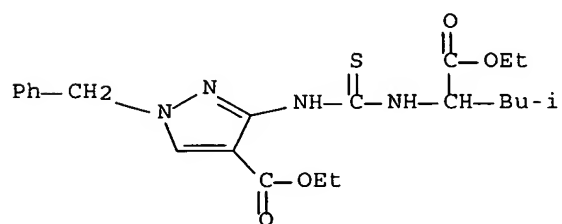
RN 138480-71-4 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



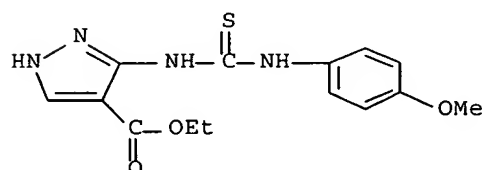
RN 138480-73-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[1-(ethoxycarbonyl)-3-methylbutyl]amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



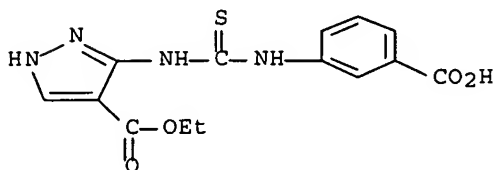
RN 138480-74-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



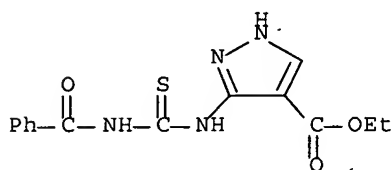
RN 138480-75-8 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(3-carboxyphenyl)amino]thioxomethyl]amino]-, 4-ethyl ester (9CI) (CA INDEX NAME)



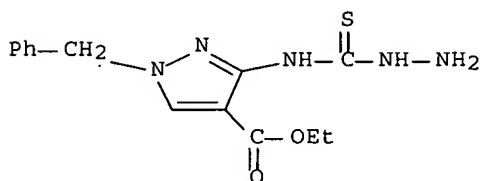
RN 138480-76-9 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(benzoylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



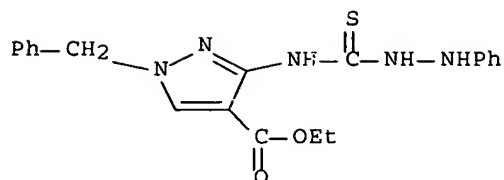
RN 138480-77-0 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[(hydrazinothioxomethyl)amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 138480-78-1 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(2-phenylhydrazino)thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

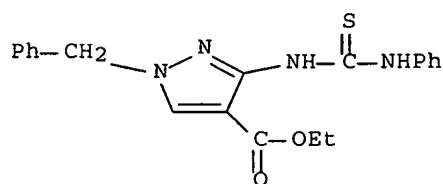


IT 36074-77-8P 107466-14-8P 107466-15-9P  
136603-32-2P 136603-33-3P 136603-34-4P  
136603-35-5P 136603-36-6P 136603-37-7P  
136993-32-3P 138480-64-5P 138480-68-9P  
138480-70-3P 138480-72-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation, hydrolysis, and cyclization of)

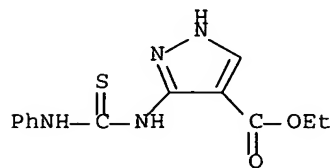
RN 36074-77-8 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(phenylamino)thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



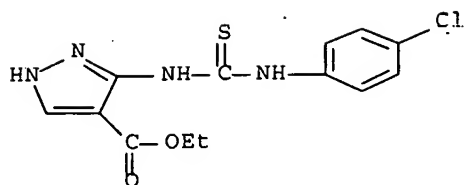
RN 107466-14-8 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



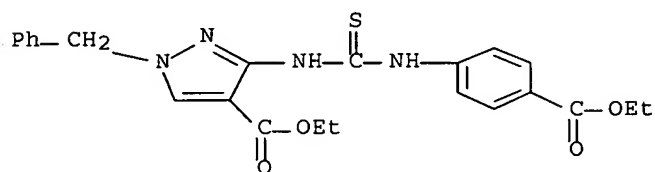
RN 107466-15-9 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



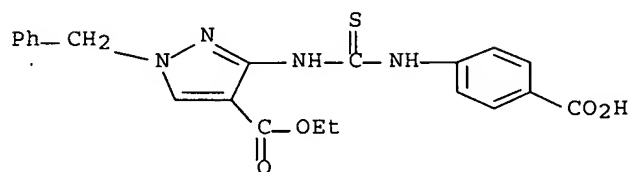
RN 136603-32-2 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



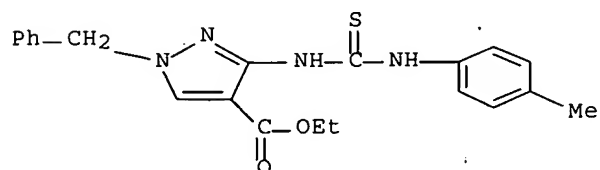
RN 136603-33-3 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(carboxyphenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, 4-ethyl ester (9CI) (CA INDEX NAME)



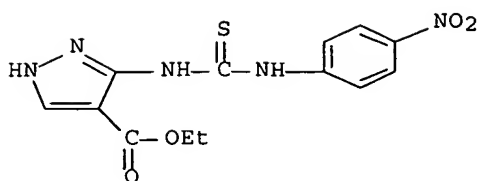
RN 136603-34-4 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(methylphenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



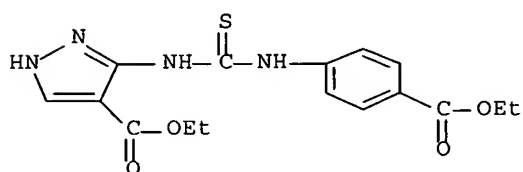
RN 136603-35-5 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(nitrophenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



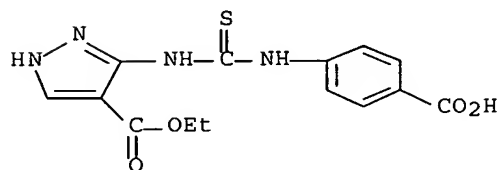
RN 136603-36-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



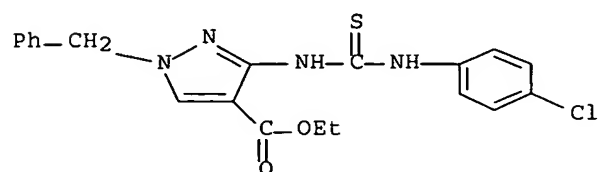
RN 136603-37-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-, 4-ethyl ester (9CI) (CA INDEX NAME)



RN 136993-32-3 HCAPLUS

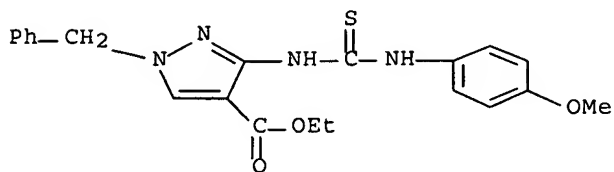
CN 1H-Pyrazole-4-carboxylic acid, 3-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 138480-64-5 HCAPLUS

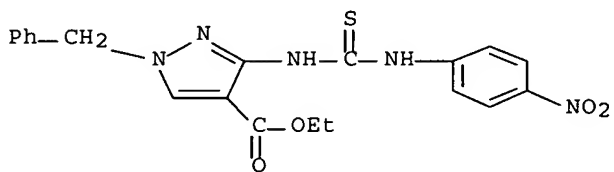


CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



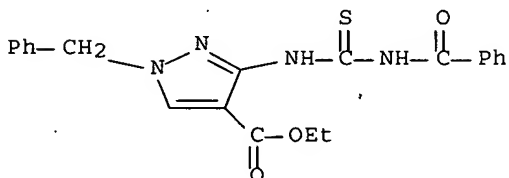
RN 138480-68-9 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-nitrophenyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



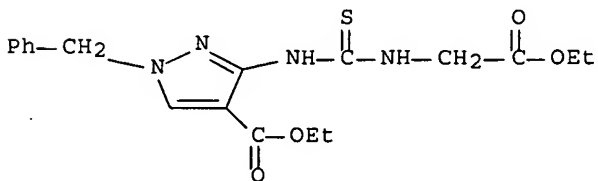
RN 138480-70-3 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(benzoylamino)thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



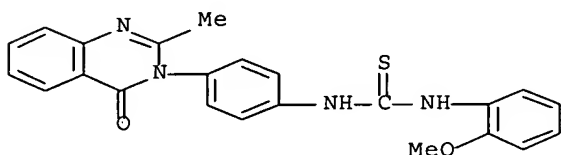
RN 138480-72-5 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

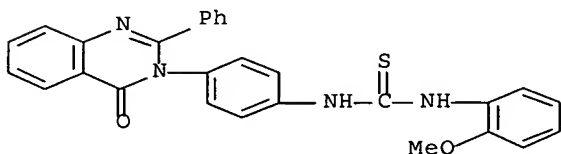




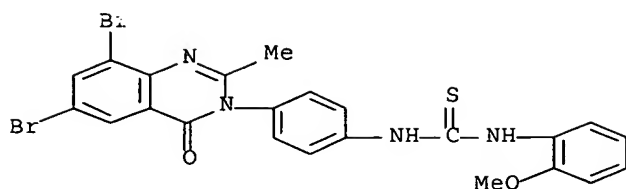
DOCUMENT NUMBER: 114:247204  
 TITLE: Synthesis and QSAR of 2,3,6,8-substituted 1,3-quinazolin-4(4H)-ones as potential anthelmintics  
 AUTHOR(S): Srivastava, Beena; Shukla, J. S.; Prabhakar, Yenamandra S.; Saxena, Anil K.  
 CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1991), 30B(3), 332-9  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 28 Jun 1991  
 AB Quinazolinones I (Ar, Ar1 = substituted Ph; R = H, Br) and II (Ar2 = substituted Ph; R1 = Me, Ph) have been synthesized and evaluated for their anthelmintic activity against H. nana in mice, A. ceylanicum in hamsters and N. brasiliensis in rats. None of these compds. shows activity against H. nana. The QSAR studies of these compound have been carried out in terms of structural and physico-chemical parameters.  
 IT 133764-74-6P 133764-75-7P 133764-76-8P 133764-77-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, with chloroacetic acid)  
 RN 133764-74-6 HCAPLUS  
 CN Thiourea, N-(2-methoxyphenyl)-N'-[4-(2-methyl-4-oxo-3(4H)-quinazolinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 133764-75-7 HCAPLUS  
 CN Thiourea, N-(2-methoxyphenyl)-N'-[4-(4-oxo-2-phenyl-3(4H)-quinazolinyl)phenyl]- (9CI) (CA INDEX NAME)

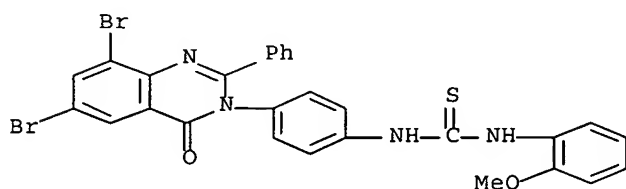


RN 133764-76-8 HCAPLUS  
 CN Thiourea, N-[4-(6,8-dibromo-2-methyl-4-oxo-3(4H)-quinazolinyl)phenyl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 133764-77-9 HCAPLUS

CN Thiourea, N-[4-(6,8-dibromo-4-oxo-2-phenyl-3(4H)-quinazolinyl)phenyl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



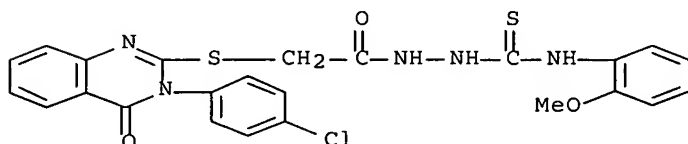
IT 133764-52-0P 133764-55-3P 133764-59-7P

133764-61-1P 133764-64-4P 133764-67-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and intramol. cyclization of)

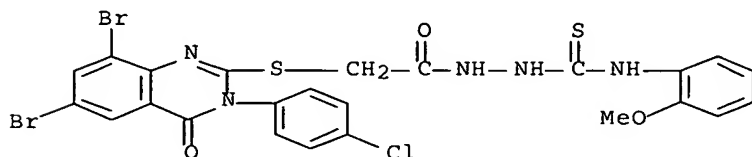
RN 133764-52-0 HCAPLUS

CN Acetic acid, [[3-(4-chlorophenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]thio]-, 2-[[2-methoxyphenyl]amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

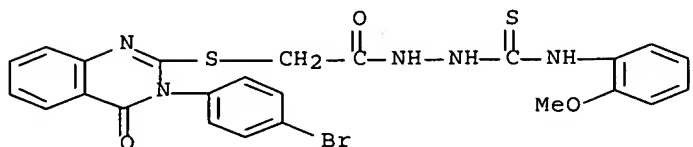


RN 133764-55-3 HCAPLUS

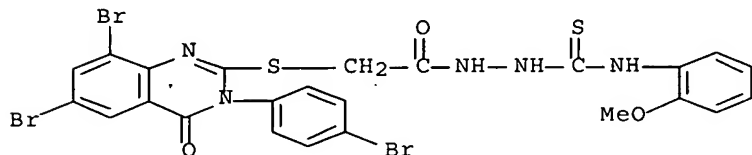
CN Acetic acid, [[6,8-dibromo-3-(4-chlorophenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]thio]-, 2-[[2-methoxyphenyl]amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



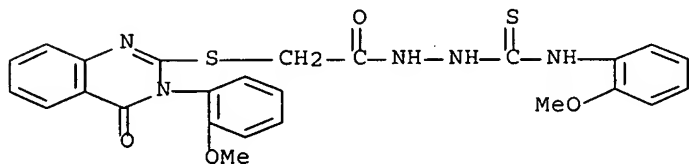
RN 133764-59-7 HCAPLUS  
 CN Acetic acid, [[3-(4-bromophenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]thio]-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



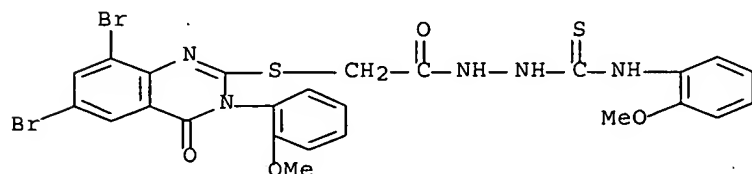
RN 133764-61-1 HCAPLUS  
 CN Acetic acid, [[6,8-dibromo-3-(4-bromophenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]thio]-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



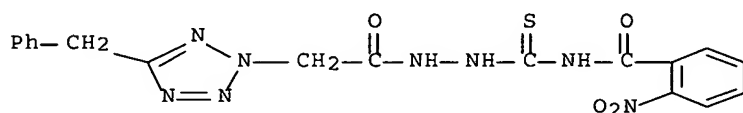
RN 133764-64-4 HCAPLUS  
 CN Acetic acid, [[3,4-dihydro-3-(2-methoxyphenyl)-4-oxo-2-quinazolinyl]thio]-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 133764-67-7 HCAPLUS  
 CN Acetic acid, [[6,8-dibromo-3,4-dihydro-3-(2-methoxyphenyl)-4-oxo-2-quinazolinyl]thio]-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 138 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:536004 HCAPLUS Full-text  
 DOCUMENT NUMBER: 115:136004  
 TITLE: Synthesis of 1-(5-benzyltetrazol-2-ylacetyl)-4-  
 aroylthiosemicarbazides and their cyclized production  
 AUTHOR(S): Feng, Xiaoming; Chen, Rong; Zhang, Jinzhong  
 CORPORATE SOURCE: Dep. Chem., Southwest Norm. Univ., Chongqing, 630715,  
 Peop. Rep. China  
 SOURCE: Youji Huaxue (1991), 11(3), 294-8  
 CODEN: YCHHDX; ISSN: 0253-2786  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 OTHER SOURCE(S): CASREACT 115:136004  
 ED Entered STN: 05 Oct 1991  
 AB Refluxing (5-benzyltetrazol-2-yl)acetylhydrazine with RC(O)NCS (R = Ph,  
 substituted Ph, PhCH:CH,  $\alpha$ -naphthylmethyl) in MeCN for 4 h gave 43.8-79.1% the  
 title compds. I which were refluxed with aqueous 8% NaOH to give 41.8-82.0%  
 triazolines II.  
 IT 135585-72-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 135585-72-7 HCAPLUS  
 CN 2H-Tetrazole-2-acetic acid, 5-(phenylmethyl)-, 2-[[[2-  
 nitrobenzoyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 139 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:429165 HCAPLUS Full-text  
 DOCUMENT NUMBER: 115:29165  
 TITLE: Synthesis and reaction of 2-imino-1,3-thiazetidines  
 and 2-imino-1,3-dithietanes  
 AUTHOR(S): Okajima, Nobuyuki; Okada, Yoshiyuki  
 CORPORATE SOURCE: Plant Protect. Res. Lab., Takeda Chem. Ind. Co., Ltd.,  
 Osaka, 532, Japan  
 SOURCE: Journal of Heterocyclic Chemistry (1991),  
 28(1), 177-85  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 115:29165  
 ED Entered STN: 27 Jul 1991  
 AB 2-Imino-1,3-thiazetidines and 2-imino-1,3-dithietanes were synthesized and  
 their reactivities were studied. The former readily underwent ring-opening  
 reaction with amines to yield guanidine derivs. The reaction products were  
 applied to the synthesis of heterocycles such as triazoles and triazines. The

latter was converted to isothiocyanates by the reaction of m-chloroperbenzoic acid. Thus, the thiazetidine I, prepared in quant. yield from 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>CONHC(S)NHC<sub>6</sub>H<sub>4</sub>Cl-4 and CH<sub>2</sub>I<sub>2</sub>, was treated with HN:C(SMe)NH<sub>2</sub>.1/2H<sub>2</sub>SO<sub>4</sub> to give the triazine II in 85% yield.

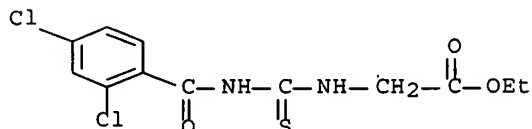
IT 108322-84-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclization of, with diiodomethane, thiazetidine derivative from)

RN 108322-84-5 HCAPLUS

CN Glycine, N-[[[(2,4-dichlorobenzoyl)amino]thioxomethyl]-, ethyl ester (9CI)  
(CA INDEX NAME)



L49 ANSWER 140 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:459092 HCAPLUS Full-text

DOCUMENT NUMBER: 113:59092

TITLE: Abiotic anion receptor functions. A facile and dependable access to chiral guanidinium anchor groups

AUTHOR(S): Kurzmeier, H.; Schmidtchen, F. P.

CORPORATE SOURCE: Tech. Univ. Muenchen, Garching, D-8046, Germany

SOURCE: Journal of Organic Chemistry (1990), 55(12), 3749-55

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:59092

ED Entered STN: 17 Aug 1990

AB The chiral bicyclic guanidinium salts I, which may be useful as anchor modules for oxoanionic functions of mol. guest species complexed by polytopic artificial receptors, were prepared Starting from the chiral amino acids, asparagine and methionine, a convergent strategy is followed to produce a thiourea derivative II (Ts = tosyl), containing all the atoms necessary to construct the bicyclic skeleton. The key reaction is the double cyclization process of thiourea II initiated by S-alkylation. In a four-step one-pot reaction, the protected bicyclic guanidines III are obtained, which are finally deprotected by electrolysis or aluminum amalgam reduction to give the target compds. I. This route matches an older one with respect to the availability of chiral educts and the reliability of the stereochem. outcome, but is distinctly superior in terms of yield, manageable scale, rapidity, and exptl. ease.

IT 127542-06-7P 127542-07-8P

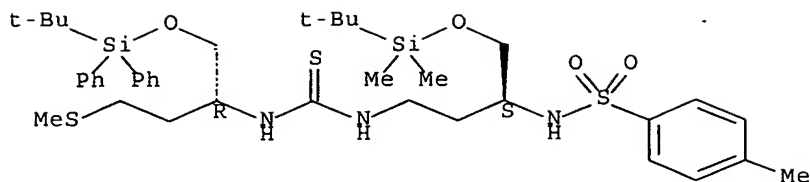
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and sequential S-methylation and cyclization of, bicyclic guanidine derivative from)

RN 127542-06-7 HCAPLUS

CN Benzenesulfonamide, N-[1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-11,11-dimethyl-7-[2-(methylthio)ethyl]-10,10-diphenyl-5-thioxo-9-oxa-4,6-diaza-10-siladodec-1-yl]-4-methyl-, [S-(R\*,S\*)]- (9CI) (CA INDEX NAME)

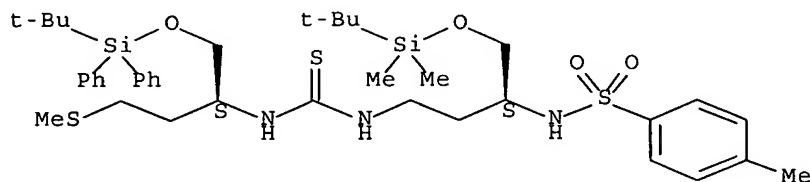
Absolute stereochemistry.



RN 127542-07-8 HCAPLUS

CN Benzenesulfonamide, N-[1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-11,11-dimethyl-7-[2-(methylthio)ethyl]-10,10-diphenyl-5-thioxo-9-oxa-4,6-diaza-10-siladodec-1-yl]-4-methyl-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



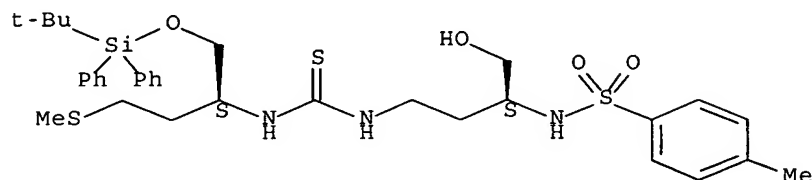
IT 127542-05-6P 127542-09-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and O-silylation of)

RN 127542-05-6 HCAPLUS

CN Benzenesulfonamide, N-[1-(hydroxymethyl)-11,11-dimethyl-7-[2-(methylthio)ethyl]-10,10-diphenyl-5-thioxo-9-oxa-4,6-diaza-10-siladodec-1-yl]-4-methyl-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

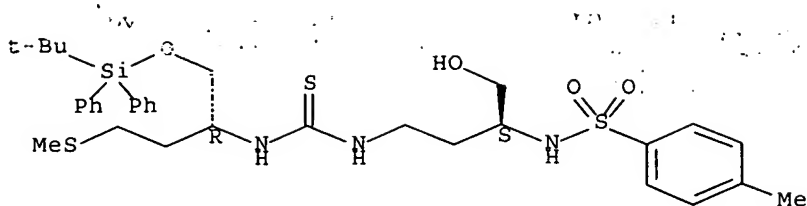


RN 127542-09-0 HCAPLUS

CN Benzenesulfonamide, N-[1-(hydroxymethyl)-11,11-dimethyl-7-[2-(methylthio)ethyl]-10,10-diphenyl-5-thioxo-9-oxa-4,6-diaza-10-siladodec-1-yl]-4-methyl-, [S-(R\*,S\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





L49 ANSWER 141 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:532117 HCAPLUS Full-text

DOCUMENT NUMBER: 113:132117

TITLE: A novel synthesis of chiral guanidinium molecular hosts

AUTHOR(S): Schmidtchen, F. P.

CORPORATE SOURCE: Tech. Univ. Muenchen, Garching, D-8046, Germany

SOURCE: Tetrahedron Letters (1990), 31(16), 2269-72

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:132117

ED Entered STN: 13 Oct 1990

AB Chiral bicyclic guanidinium salts (e.g., I) were readily prepared from asparagine and methionine by alkylative cyclization of an open-chain thiourea derivative, i.e., (S,S)-p-MeC6H4SO2NHCH(CH2OH)CH2CH2NHCSNHCH(CH2OSiPh2CMe3)CH2CH2SMe.

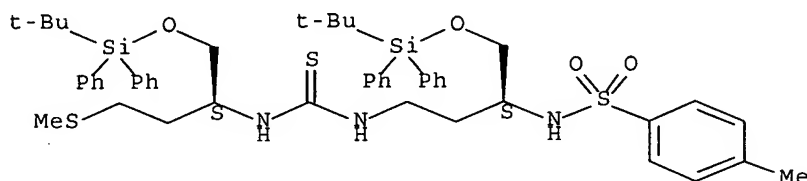
IT 129201-50-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and methylation-double cyclization of)

RN 129201-50-9 HCAPLUS

CN Benzenesulfonamide, N-[1-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-11,11-dimethyl-7-[2-(methylthio)ethyl]-10,10-diphenyl-5-thioxo-9-oxa-4,6-diaza-10-siladodec-1-yl]-4-methyl-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



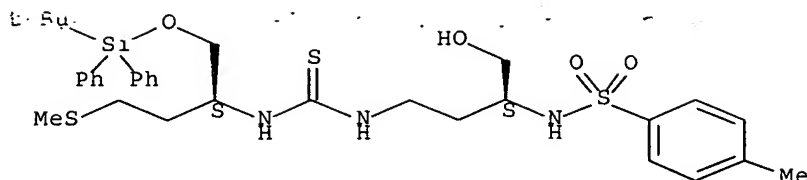
IT 127542-05-6P, P 10

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and silylation of)

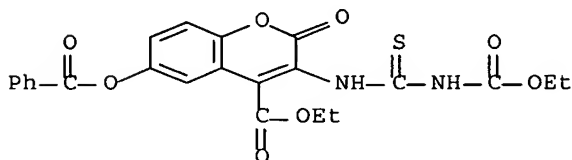
RN 127542-05-6 HCAPLUS

CN Benzenesulfonamide, N-[1-(hydroxymethyl)-11,11-dimethyl-7-[2-(methylthio)ethyl]-10,10-diphenyl-5-thioxo-9-oxa-4,6-diaza-10-siladodec-1-yl]-4-methyl-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

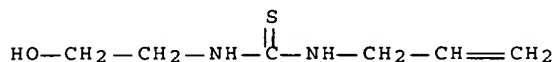


L49 ANSWER 142 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:6434 HCAPLUS Full-text  
 DOCUMENT NUMBER: 114:6434  
 TITLE: Some transformations of 3-amino-4-(alkoxycarbony)-6-hydroxy-2H-1-benzopyran-2-ones. The synthesis of [1]benzopyrano[3,4-d][1,3]oxazine and [1]benzopyrano[3,4-d]pyrimidine derivatives  
 AUTHOR(S): Fajgelj, Simona; Stanovnik, Branko; Tisler, Miha  
 CORPORATE SOURCE: Dep. Chem., Edvard Kardelj Univ., Ljubljana, Yugoslavia  
 SOURCE: Journal of Heterocyclic Chemistry (1990), 27(5), 1447-51  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 114:6434  
 ED Entered STN: 12 Jan 1991  
 AB Acylation of 4-(alkoxycarbonyl)-3-amino-6-hydroxy-2H-1-benzopyran-2-one derivs. I (R = Me, Et) gave under mild conditions the O-substituted derivs., N,O-disubstituted derivative and N,N-disubstituted derivative I (R = Et) was transformed with benzoyl chloride under more drastic conditions into a derivative of a new heterocyclic system [1]benzopyrano[3,4-d][1,3]oxazine II. The derivs. of [1]benzopyrano[3,4-d]pyrimidine III and IV were prepared from I either through the corresponding N-heteroarylformamidines and N-heteroarylformamide oximes or by cyclization of a thiourea derivative  
 IT 131022-27-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and intramol. cyclization of)  
 RN 131022-27-0 HCAPLUS  
 CN 2H-1-Benzopyran-4-carboxylic acid, 6-(benzoyloxy)-3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-2-oxo-, ethyl ester (9CI) (CA INDEX NAME)

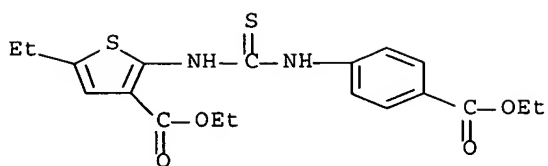


L49 ANSWER 143 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:6357 HCAPLUS Full-text

DOCUMENT NUMBER: 114:6357 acid 2-  
 TITLE: Reaction of 5-hydro-1,9-dioxo-4,6-diaza-5-phosphaspiro[4.4]nonane with an alcohol and isothiocyanates  
 AUTHOR(S): Mizrahi, L. I.; Polonskaya, L. Yu.; Gvozdetskii, A. N.; Karpunina, L. B.  
 CORPORATE SOURCE: USSR  
 SOURCE: Zhurnal Obshchei Khimii (1990), 60(6), 1422-3  
 CODEN: ZOKHA4; ISSN: 0044-460X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 114:6357  
 ED Entered STN: 12 Jan 1991  
 AB Treatment of the title compds. (I) with EtOH and RNCS (R = Ph, CH<sub>2</sub>CH=CH<sub>2</sub>) in the presence of HCl and subsequent alkaline hydrolysis gives the thiazolidine derivs. (II) in 73 and 80% yields resp.  
 IT 105-81-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (attempted cyclization of, in presence of hydrochloric acid)  
 RN 105-81-7 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)

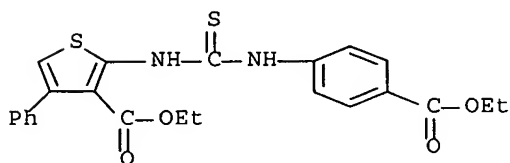


L49 ANSWER 144 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:185429 HCAPLUS Full-text  
 DOCUMENT NUMBER: 114:185429  
 TITLE: Thieno compounds. Part 10: synthesis of 3,5,6-trisubstituted 2-alkylthio-3,4-dihydro-4-oxothieno[2,3-d]pyrimidines  
 AUTHOR(S): Boehm, R.; Mueller, R.; Pech, R.  
 CORPORATE SOURCE: Wissenschaftsbereich Pharm. Chem., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, O-4050, Germany  
 SOURCE: Pharmazie (1990), 45(11), 827-9  
 CODEN: PHARAT; ISSN: 0031-7144  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 ED Entered STN: 17 May 1991  
 AB Title compds: I [X = p-C<sub>6</sub>H<sub>4</sub>, CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>-p, CH<sub>2</sub>CH<sub>2</sub>; R = H, Me, Ph; R<sub>1</sub> = H, Me, Et; RR<sub>1</sub> = (CH<sub>2</sub>)<sub>4</sub>; R<sub>2</sub> = H, Me; R<sub>3</sub> = Me, Et] were prepared from aminothiophenes II (R<sub>4</sub> = H) by reaction with CSCl<sub>2</sub> followed by H<sub>2</sub>NXC<sub>2</sub>O<sub>2</sub>R<sub>2</sub> or with SCNXC<sub>2</sub>O<sub>2</sub>R<sub>2</sub>, cyclization of II (R<sub>4</sub> = CSNHXC<sub>2</sub>O<sub>2</sub>R<sub>2</sub>) with ester hydrolysis, and S-allylation. Use of MeI and dialkyl sulfates gave I (R<sub>2</sub> = H, R<sub>3</sub> = Me, Et), whereas Me<sub>2</sub>NCH(OMe)<sub>2</sub> gave I (R<sub>2</sub> = R<sub>3</sub> = Me).  
 IT 109315-48-2P 109315-50-6P 109315-51-7P  
109315-52-8P 109315-53-9P 109315-56-2P  
109343-17-1P 109343-18-2P 133286-77-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 109315-48-2 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 2-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-5-ethyl-, ethyl ester (9CI) (CA INDEX NAME)



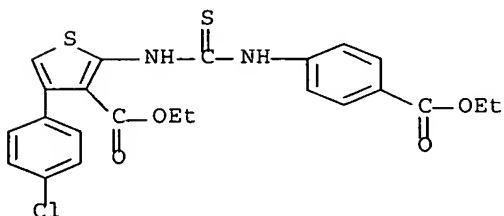
RN 109315-50-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



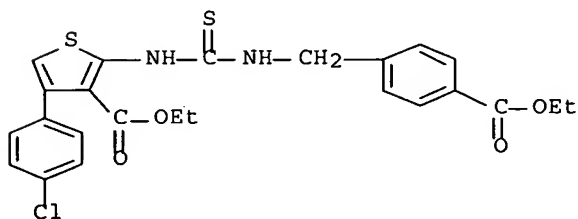
RN 109315-51-7 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-(4-chlorophenyl)-2-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

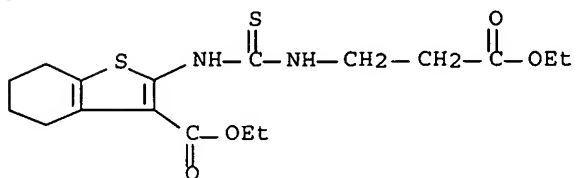


RN 109315-52-8 HCAPLUS

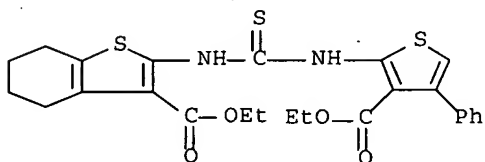
CN 3-Thiophenecarboxylic acid, 4-(4-chlorophenyl)-2-[[[4-(ethoxycarbonyl)phenyl]methyl]amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



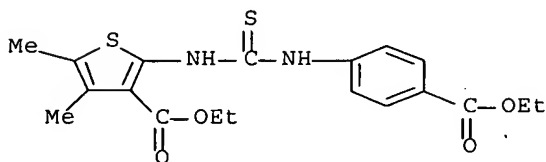
RN 109315-53-9 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(3-ethoxy-3-oxopropyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI)  
 (CA INDEX NAME)



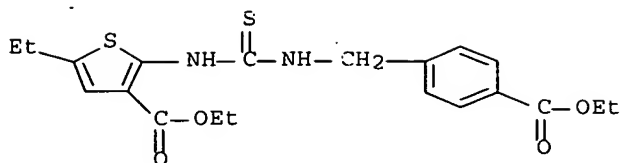
RN 109315-56-2 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[3-(ethoxycarbonyl)-4-phenyl-2-thienyl]amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI)  
 (CA INDEX NAME)



RN 109343-17-1 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 2-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

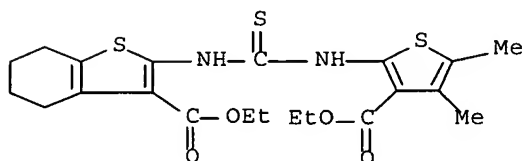


RN 109343-18-2 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 2-[[[[4-(ethoxycarbonyl)phenyl]methyl]amino]thioxomethyl]amino]-5-ethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 133286-77-8 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[3-(ethoxycarbonyl)-4,5-dimethyl-2-thienyl]amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI)  
(CA INDEX NAME)



IT 109315-49-3P 109315-54-0P 109315-55-1P

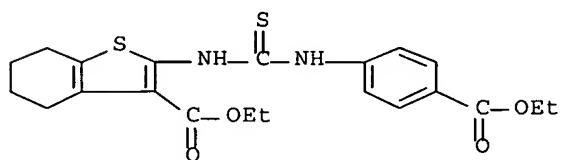
109343-19-3P 109343-20-6P 133286-73-4P

133286-74-5P 133286-75-6P 133286-76-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

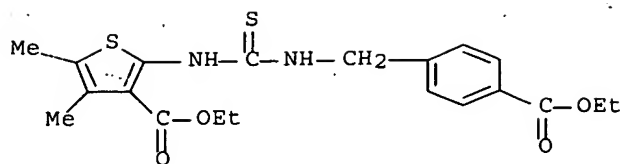
RN 109315-49-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[4-(ethoxycarbonyl)phenyl]amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



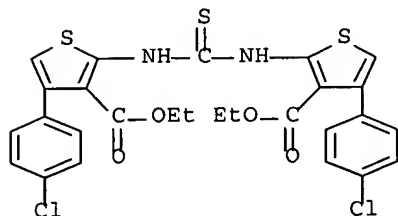
RN 109315-54-0 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[4-(ethoxycarbonyl)phenyl]methyl]amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



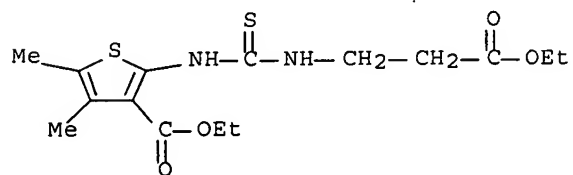
RN 109315-55-1 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2,2'-(carbonothioyldiimino)bis[4-(4-chlorophenyl)-, diethyl ester (9CI) (CA INDEX NAME)



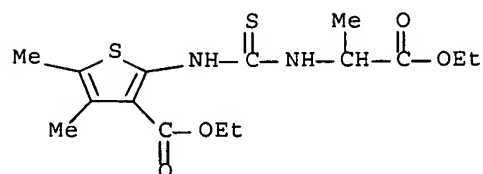
RN 109343-19-3 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(3-ethoxy-3-oxopropyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



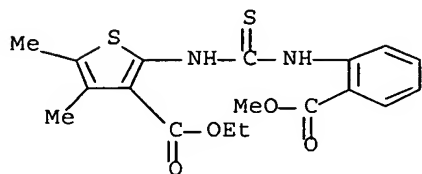
RN 109343-20-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(2-ethoxy-1-methyl-2-oxoethyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



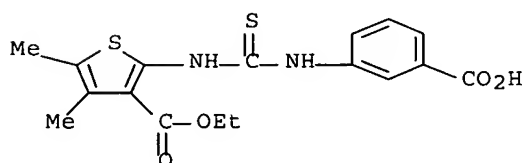
RN 133286-73-4 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[2-(methoxycarbonyl)phenyl]amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



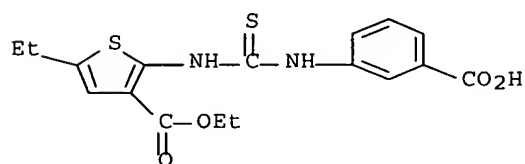
RN 133286-74-5 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(3-carboxyphenyl)amino]thioxomethyl]amino]-4,5-dimethyl-, 3-ethyl ester (9CI) (CA INDEX NAME)



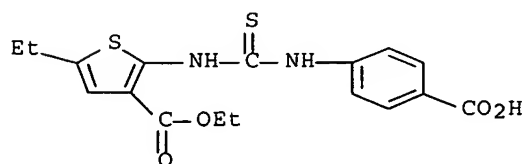
RN 133286-75-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(3-carboxyphenyl)amino]thioxomethyl]amino]-5-ethyl-, 3-ethyl ester (9CI) (CA INDEX NAME)



RN 133286-76-7 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-carboxyphenyl)amino]thioxomethyl]amino]-5-ethyl-, 3-ethyl ester (9CI) (CA INDEX NAME)





L49 ANSWER 145 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:122900 HCAPLUS Full-text

DOCUMENT NUMBER: 114:122900

TITLE: N-Glycosyl-N'-carbonylmethylthioureas

AUTHOR(S): Fuentes Mota, J.; Garcia Fernandez, J. M.; Pradera  
Adrian, M. A.; Ortiz Mellet, C.; Garcia Gomez, M.

CORPORATE SOURCE: Fac. Quim., Univ. Sevilla, Seville, Spain

SOURCE: Anales de Quimica (1990), 86(6), 655-64

CODEN: ANQUEX; ISSN: 1130-2283

DOCUMENT TYPE: Journal

LANGUAGE: Spanish

OTHER SOURCE(S): CASREACT 114:122900

ED Entered STN: 06 Apr 1991

AB N-Glycosyl-N'-carbonylmethylthioureas I (e.g., R = OEt, R1 = OBz, R2 = H; R = OEt, Ph, p-anisyl, p-BrC6H4, R1 = H, R2 = OBz) were prepared from glycosyl isothiocyanates and transformed into 1-( $\beta$ -D-glycopyranosyl)-5-oxo-2-thioxotetrahydroimidazoles and 5-aryl-3-(2',3',4',6'-tetra-O-benzoyl- $\beta$ -D-galactopyranosylamino)thiazoles.

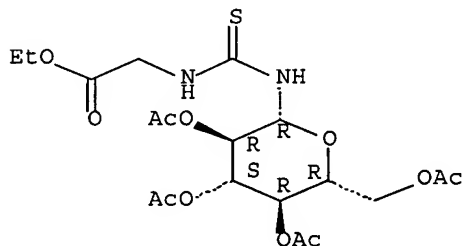
IT 132413-51-5P 132413-52-6P 132413-53-7P  
132413-54-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and NMR of)

RN 132413-51-5 HCAPLUS

CN Glycine, N-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

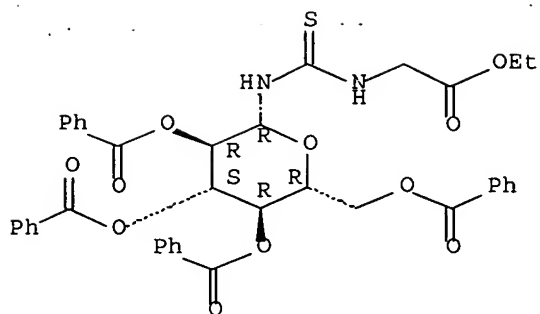
Absolute stereochemistry.



RN 132413-52-6 HCAPLUS

CN Glycine, N-[[[(2,3,4,6-tetra-O-benzoyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

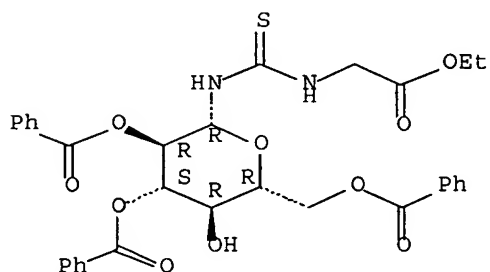
Absolute stereochemistry.



RN 132413-53-7 HCAPLUS

CN Glycine, N-[thioxo[(2,3,6-tri-O-benzoyl- $\beta$ -D-glucopyranosyl)amino]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

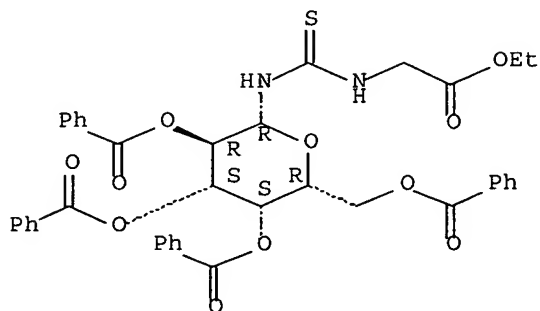
Absolute stereochemistry.



RN 132413-54-8 HCAPLUS

CN Glycine, N-[[[(2,3,4,6-tetra-O-benzoyl- $\beta$ -D-galactopyranosyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



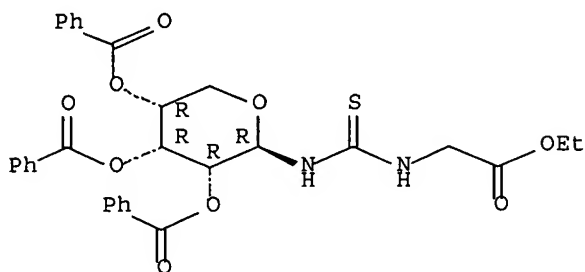
IT 132413-55-9P 132413-57-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 132413-55-9 HCAPLUS

CN Glycine, N-[thioxa[(2,3,4-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)amino]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

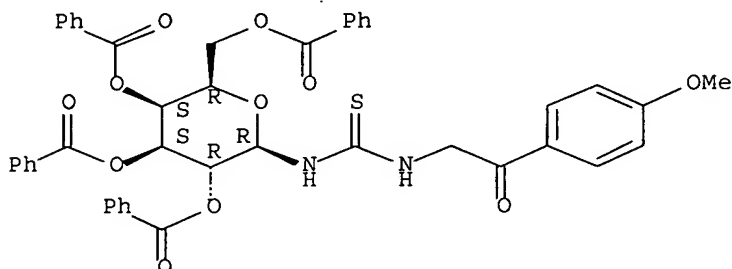
Absolute stereochemistry.



RN 132413-57-1 HCAPLUS

CN Thiourea, N-[2-(4-methoxyphenyl)-2-oxoethyl]-N'-(2,3,4,6-tetra-O-benzoyl- $\beta$ -D-galactopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



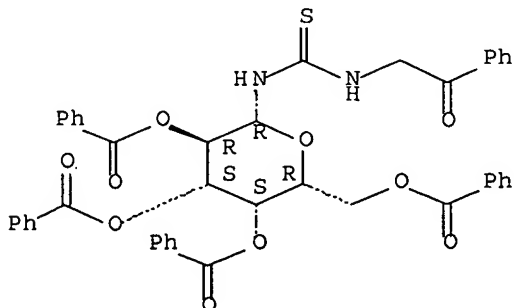
IT 132413-56-0P 132413-58-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 132413-56-0 HCAPLUS

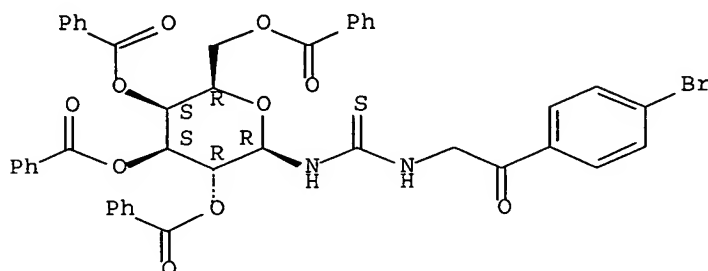
CN Thiourea, N-(2-oxo-2-phenylethyl)-N'-(2,3,4,6-tetra-O-benzoyl- $\beta$ -D-galactopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 132413-58-2 HCAPLUS  
CN Thiourea, N-[2-(4-bromophenyl)-2-oxoethyl]-N'-(2,3,4,6-tetra-O-benzoyl- $\beta$ -D-galactopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 146 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:122271 HCAPLUS Full-text

DOCUMENT NUMBER: 114:122271

TITLE: Synthesis and pharmacological activities of some 3-substituted thienopyrimidin-4-one-2-thiones

AUTHOR(S): Cannito, A.; Perrissin, M.; Luu Duc, Cuong; Huguet, F.; Gaultier, C.; Narcisse, G.

CORPORATE SOURCE: Lab. Chim. Pharm., Univ. Joseph-Fourier Grenoble I, La Tronche, F-38706, Fr.

SOURCE: European Journal of Medicinal Chemistry (1990), 25(8), 635-9

CODEN: EJMCA5; ISSN: 0223-5234

DOCUMENT TYPE: Journal

LANGUAGE: French

OTHER SOURCE(S): CASREACT 114:122271

ED Entered STN: 06 Apr 1991

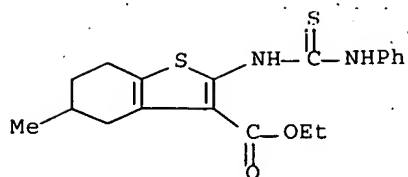
AB The condensation of substituted 2-amino-3-carbethoxythiophenes with Me, Et and Ph isothiocyanate yields the corresponding thienylthioureas which cyclize in EtOH saturated with dry hydrochloric acid to form 3-substituted thieno[2,3-d]pyrimidin-4(3H)-one-2-thiones. Thirty-five compds., 21 thienylthioureas and 14 thienopyrimidin-4-one-2-thiones, have been screened for their analgesic and antiinflammatory activities. The i.p. administration of these products at a dose of 1000 mg/kg shows that they are not toxic (one excepted). Some compds. show analgesic and antiinflammatory activities equivalent to those of acetylsalicylic acid.

IT 132605-15-3P 132605-16-4P 132605-17-5P  
132605-18-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and antiinflammatory and analgesic properties of)

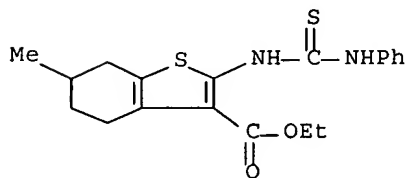
RN 132605-15-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-5-methyl-2-[[ (phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



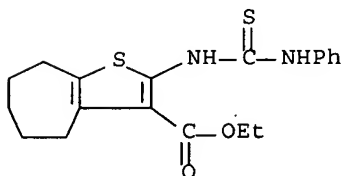
RN 132605-16-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-6-methyl-2-  
[[phenylamino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



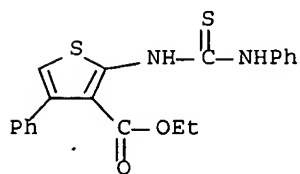
RN 132605-17-5 HCAPLUS

CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 5,6,7,8-tetrahydro-2-  
[[phenylamino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 132605-18-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-phenyl-2-[[phenylamino]thioxomethyl]amino]-  
, ethyl ester (9CI) (CA INDEX NAME)



IT 42076-12-0P 51486-13-6P 59898-48-5P  
59898-49-6P 59898-51-0P 132605-03-9P  
132605-04-0P 132605-05-1P 132605-06-2P

132605-07-3P 132605-08-4P 132605-09-5P

132605-10-8P 132605-11-9P 132605-12-0P

132605-13-1P 132605-14-2P

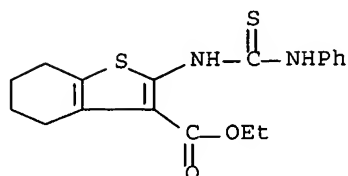
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation, cyclization, and antiinflammatory and analgesic properties of)

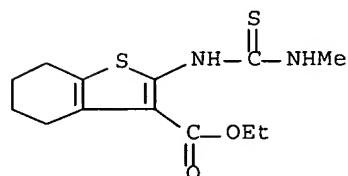
RN 42076-12-0 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
[[ (phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



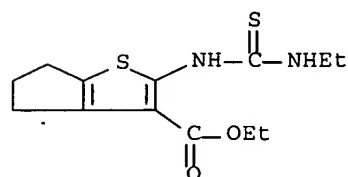
RN 51486-13-6 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
[[ (methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



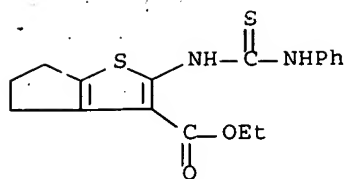
RN 59898-48-5 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 2-  
[[ (ethylamino)thioxomethyl]amino]-5,6-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



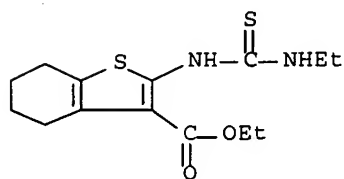
RN 59898-49-6 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 5,6-dihydro-2-  
[[ (phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



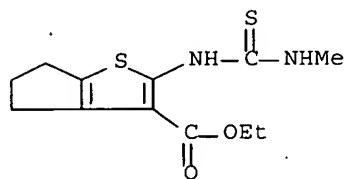
RN 59898-51-0 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



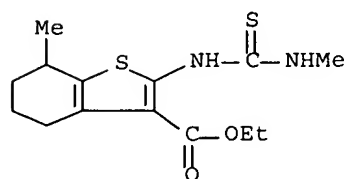
RN 132605-03-9 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 5,6-dihydro-2-[[[(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



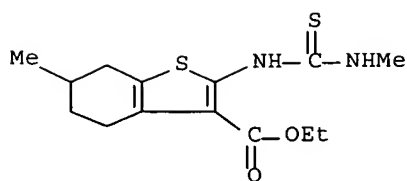
RN 132605-04-0 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-7-methyl-2-[[[(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



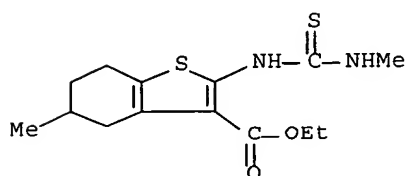
RN 132605-05-1 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-6-methyl-2-[[[(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



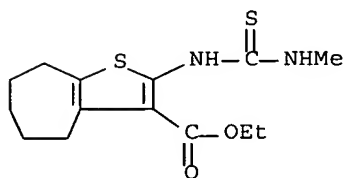
RN 132605-06-2 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-5-methyl-2-  
[[[(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



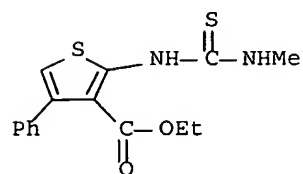
RN 132605-07-3 HCAPLUS

CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 5,6,7,8-tetrahydro-2-  
[[[(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 132605-08-4 HCAPLUS

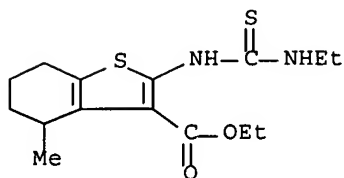
CN 3-Thiophenecarboxylic acid, 2-[[[(methylamino)thioxomethyl]amino]-4-phenyl-  
, ethyl ester (9CI) (CA INDEX NAME)



RN 132605-09-5 HCAPLUS

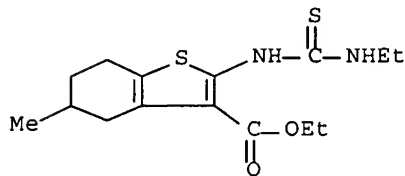


CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



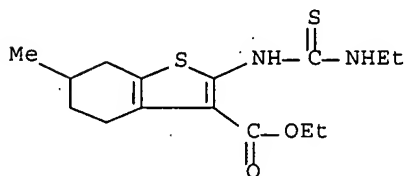
RN 132605-10-8 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



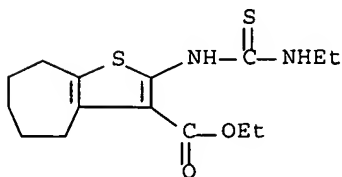
RN 132605-11-9 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-6-methyl-, ethyl ester (9CI) (CA INDEX NAME)

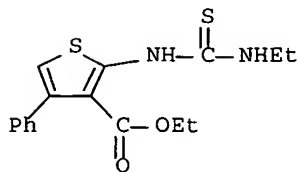


RN 132605-12-0 HCAPLUS

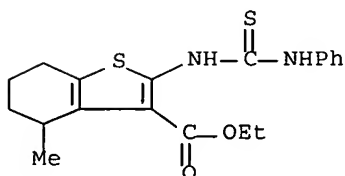
CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



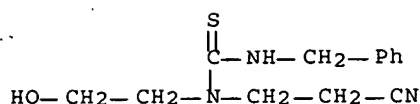
RN 132605-13-1 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 132605-14-2 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-4-methyl-2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 147 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:631256 HCAPLUS Full-text  
 DOCUMENT NUMBER: 113:231256  
 TITLE: Reactions of 2-iminothiazolidine derivatives with acrylonitrile, methyl acrylate, and methyl iodide  
 AUTHOR(S): Mizrakh, L. I.; Polonskaya, L. Yu.; Gvozdetskii, A. N.; Ivanova, T. M.; Karpunina, L. B.  
 CORPORATE SOURCE: Inst. Biofiz., Moscow, 123182, USSR  
 SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1990), (4), 563-6  
 CODEN: KGSSAQ; ISSN: 0453-8234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 113:231256  
 ED Entered STN: 22 Dec 1990  
 AB Cyanoethylation, carbomethoxyethylation, and methylation of 2-amino(imino)thiazoli(di)ines, substituted at the exocyclic N atom, in both cases takes place to give isomeric products of 2-iminothiazolidine and 2-amino-Δ<sup>2</sup>-thiazoline structures.  
 IT 130717-01-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 130717-01-0 HCAPLUS  
 CN Thiourea, N-(2-cyanoethyl)-N-(2-hydroxyethyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

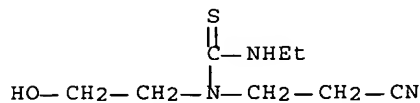


IT 130716-47-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as byproduct in synthesis  
 (benzylimino)(cyanoethyl)thiazoli  
 dine)

RN 130716-47-1 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N'-ethyl-N-(2-hydroxyethyl)- (9CI) (CA INDEX  
 NAME)

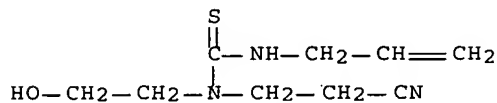


IT 130716-46-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as byproduct in synthesis of  
 (allylamino)(cyanoethyl)thiazo  
 lidine)

RN 130716-46-0 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N-(2-hydroxyethyl)-N'-2-propenyl- (9CI) (CA  
 INDEX NAME)

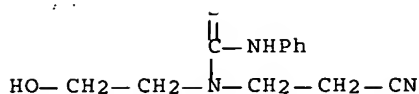


IT 124887-59-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as byproduct in synthesis of  
 (ethylimino)(cyanoethyl)thiazo  
 lidine)

RN 124887-59-8 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N-(2-hydroxyethyl)-N'-phenyl- (9CI) (CA INDEX  
 NAME)



L49 ANSWER 148 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:143356 HCAPLUS Full-text

DOCUMENT NUMBER: 114:143356

TITLE: Synthesis of some 2-aryloxymethyl-1,3,4-thiadiazolo[2,3-b]quinazolin-4-ones and 2-aryloxymethyl-5-substituted-1,3,4-thiadiazolo[3.2-a]-s-triazine-7-thiones as potential biocides

AUTHOR(S): Tiwari, Nirupama; Dwivedi, Bandana; Nizamuddin

CORPORATE SOURCE: Dep. Chem., Univ. Gorakhpur, Gorakhpur, 273009, India

SOURCE: Nippon Noyaku Gakkaishi (1990), 15(3), 357-62

CODEN: NNGADV; ISSN: 0385-1559

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:143356

ED Entered STN: 19 Apr 1991

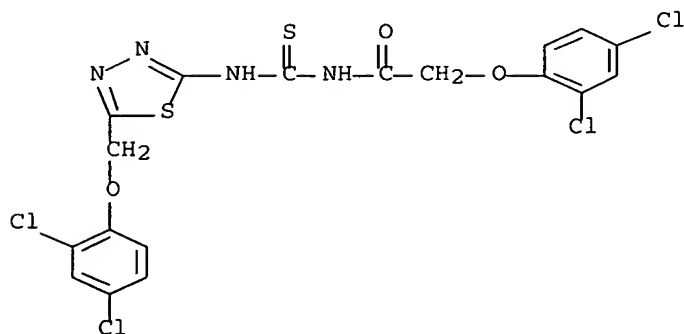
AB 2-Aryloxymethyl-1,3,4-thiadiazolo[2,3-b]-quinazolin-4-ones I [R = 3,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2-ClC<sub>6</sub>H<sub>4</sub>, 4-MeC<sub>6</sub>H<sub>4</sub>, 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2-MeC<sub>6</sub>H<sub>4</sub>) and 2-aryloxymethyl-1,3,4-thiadiazolo[3,2-a]-s-triazine-7-thiones II [R = 2,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 4-ClC<sub>6</sub>H<sub>4</sub>; R<sub>1</sub> = Me, Ph, 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OCH<sub>2</sub>] were synthesized from 2-amino-5-aryloxymethyl-1,3,4-thiadiazoles by reaction with 2-ClC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H and R<sub>1</sub>CONCS resp. All the compds. have been evaluated for their fungicidal and herbicidal activities.

IT 131858-22-5P 131858-23-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

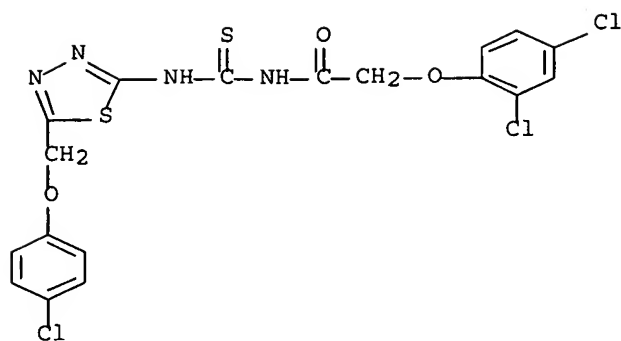
RN 131858-22-5 HCAPLUS

CN Acetamide, 2-(2,4-dichlorophenoxy)-N-[[[5-[(2,4-dichlorophenoxy)methyl]-1,3,4-thiadiazol-2-yl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



RN 131858-23-6 HCAPLUS

CN Acetamide, N-[[[5-[(4-chlorophenoxy)methyl]-1,3,4-thiadiazol-2-yl]amino]thioxomethyl]-2-(2,4-dichlorophenoxy)- (9CI) (CA INDEX NAME)



L49 ANSWER 149 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:572561 HCAPLUS Full-text

DOCUMENT NUMBER: 113:172561

TITLE: Synthesis of sugar N-(2-thiazolin-2-yl)thioureas

AUTHOR(S): Avalos, Martin; Babiano, Reyes; Cintas, Pedro; Jimenez, Jose L.; Palacios, Juan C.

CORPORATE SOURCE: Dep. Org. Chem., Univ. Extremadura, Badajoz, 06071, Spain

SOURCE: Carbohydrate Research (1990), 198(2), 247-58

CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:172561

ED Entered STN: 09 Nov 1990

AB 1,3,4,6-Tetra-O-acetyl-2-deoxy-2-isothiocyanato- $\alpha$ - or - $\beta$ -D-glucopyranose was condensed with 2-chloroethylamine hydrochloride in pyridine to afford N,N'-bis(1,3,4,6-tetra-O-acetyl-2-deoxy- $\alpha$ - or - $\beta$ -D-glucopyranos-2-yl)-N-(2-thiazolin-2-yl)thiourea (I or II). When the reactions were carried out in ether, 1,3,4,6-tetra-O-acetyl-2-deoxy-2-(2-thiazolin-2-yl(amino- $\alpha$ - and - $\beta$ -D-glucopyranose were isolated and converted into the mixed N-(2-thiazolin-2-yl)urea and -thioureas by reaction with iso(thio)cyanates. Br-promoted cyclization of 1,3,4,6-tetra-O-acetyl-2-(N'-allylthioureido)-2-deoxy- $\alpha$ -D-glucopyranose gave a mixture of the diastereomers 1,3,4,6-tetra-O-acetyl-2-[5(R and S)-5-bromomethyl-2-thiazolin-2-yl]amino-2-deoxy- $\alpha$ -D-glucopyranoside hydrobromides which was transformed into the analogous N-(2-thiazolin-2-yl)thioureas.

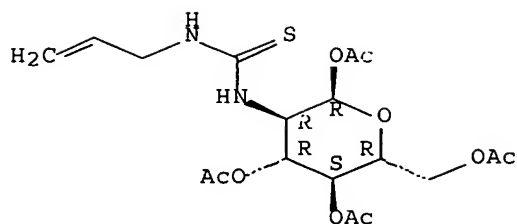
IT 129728-76-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 129728-76-3 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[2-propenylamino)thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



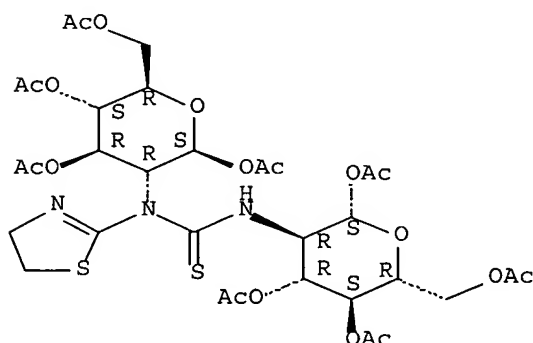
IT 129728-73-0P 129728-81-0P 129747-86-0P  
129785-41-7P 129785-42-8P 129831-58-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 129728-73-0 HCAPLUS

CN  $\beta$ -D-Glucopyranose, 2-deoxy-2-[(4,5-dihydro-2-thiazolyl)[[(1,3,4,6-tetra-O-acetyl-2-deoxy- $\beta$ -D-glucopyranos-2-yl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

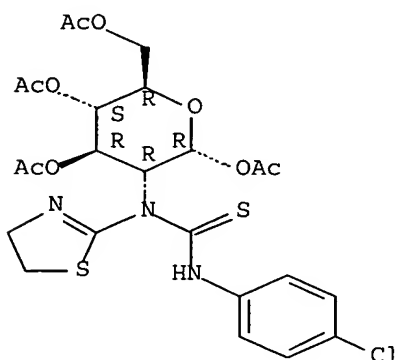
Absolute stereochemistry.



RN 129728-81-0 HCAPLUS

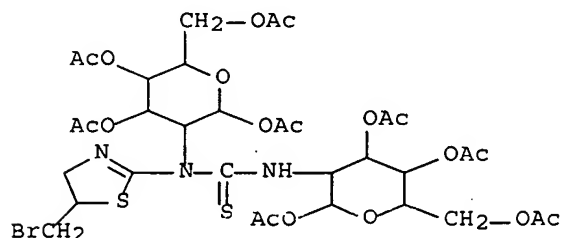
CN  $\alpha$ -D-Glucopyranose, 2-[[[(4-chlorophenyl)amino]thioxomethyl](4,5-dihydro-2-thiazolyl)amino]-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



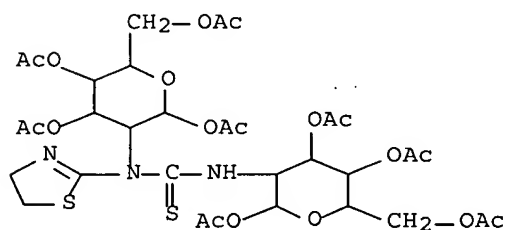
RN 129747-86-0 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-[[5-(bromomethyl)-4,5-dihydro-2-thiazolyl][[(1,3,4,6-tetra-O-acetyl-2-deoxy- $\alpha$ -D-glucopyranos-2-yl)amino]thioxomethyl]amino]-2-deoxy-, 1,3,4,6-tetraacetate, (S)- (9CI)  
(CA INDEX NAME)



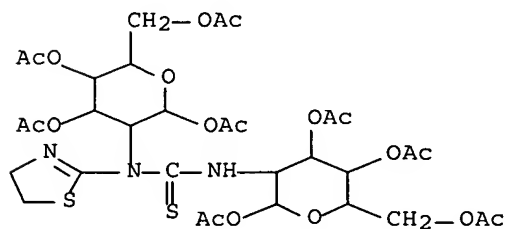
RN 129785-41-7 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[(4,5-dihydro-2-thiazolyl)[[(1,3,4,6-tetra-O-acetyl-2-deoxy- $\beta$ -D-glucopyranos-2-yl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)



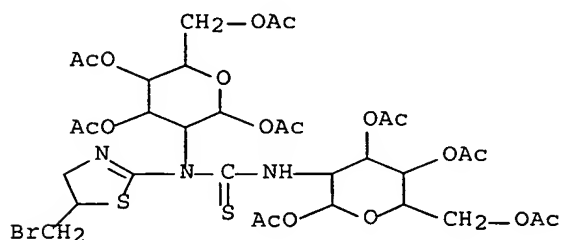
RN 129785-42-8 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[[(4,5-dihydro-2-thiazolyl)(1,3,4,6-tetra-O-acetyl-2-deoxy- $\beta$ -D-glucopyranos-2-yl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)



RN 129831-58-9 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-[[5-(bromomethyl)-4,5-dihydro-2-thiazolyl][[(1,3,4,6-tetra-O-acetyl-2-deoxy- $\alpha$ -D-glucopyranos-2-yl)amino]thioxomethyl]amino]-2-deoxy-, 1,3,4,6-tetraacetate, (R) - (9CI)  
(CA INDEX NAME)



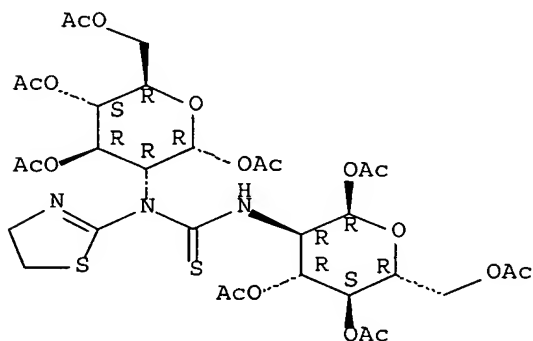
IT 129728-72-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of and reaction with  
tetraacetyl(bromomethylthiazolyl)aminode  
oxyglucopyranose hydrobromide)

RN 129728-72-9 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[(4,5-dihydro-2-thiazolyl)[[(1,3,4,6-tetra-O-acetyl-2-deoxy- $\alpha$ -D-glucopyranos-2-yl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 150 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:515235 HCAPLUS Full-text

DOCUMENT NUMBER: 113:115235

TITLE: A convenient and facile synthesis of  
1-aryl-4-oxo-5-substituted-phenylpyrazolo[3,4-  
d]pyrimidine-6-thiones and their fungicidal activity

AUTHOR(S): Giri, S.; Shukla, Arun Kumar; Nizamuddin

CORPORATE SOURCE: Dep. Chem., Univ. Gorakhpur, Gorakhpur, 273 009, India

SOURCE: Journal of the Indian Chemical Society (1990  
, 67(2), 153-5



DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 113:115235

ED Entered STN: 29 Sep 1990

AB Title compds. I (R = H, 4-Cl, 4-OH, 2-OH, 4-NO<sub>2</sub>, R1 = Cl; R = 4-Cl, 4-OH, 4-NO<sub>2</sub>, 4-Me, R1 = Me) were prepared by treating pyrazoles II with isocyanates 4-R1C<sub>6</sub>H<sub>4</sub>NCS in DMF. I were screened for antifungal activity.

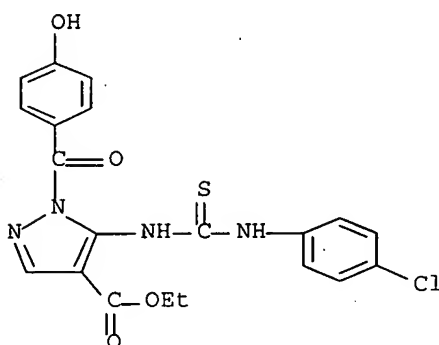
IT 129190-86-9P 129190-87-0P 129190-90-5P

129190-91-6P 129190-92-7P 129190-93-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

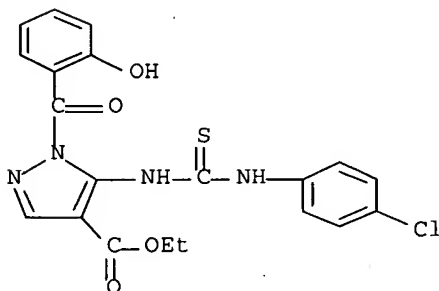
RN 129190-86-9 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 5-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-1-(4-hydroxybenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



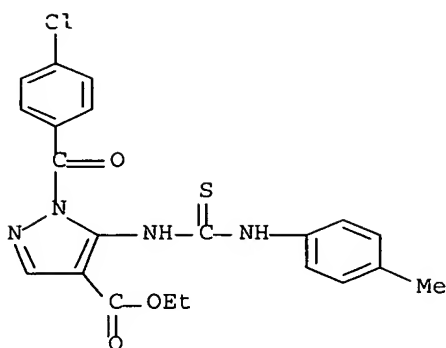
RN 129190-87-0 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 5-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-1-(2-hydroxybenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



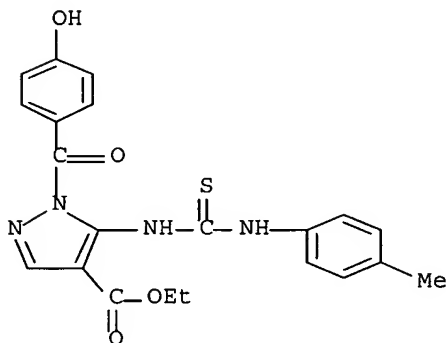
RN 129190-90-5 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-chlorobenzoyl)-5-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



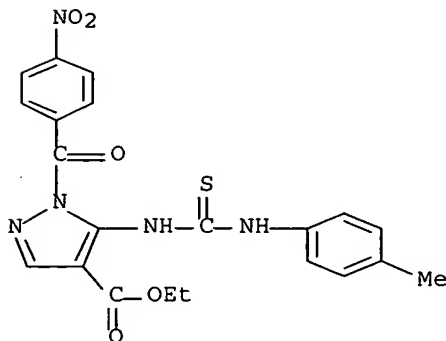
RN 129190-91-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-hydroxybenzoyl)-5-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 129190-92-7 HCAPLUS

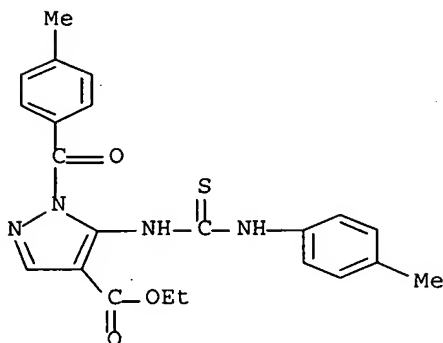
CN 1H-Pyrazole-4-carboxylic acid, 5-[[[(4-methylphenyl)amino]thioxomethyl]amino]-1-(4-nitrobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 129190-93-8 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-methylbenzoyl)-5-[[[(4-

methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



IT 129190-83-6P 129190-84-7P 129190-85-8P

129190-88-1P 129190-89-2P

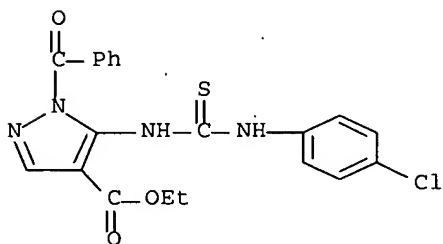
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation, cyclization, and antifungal activity of)

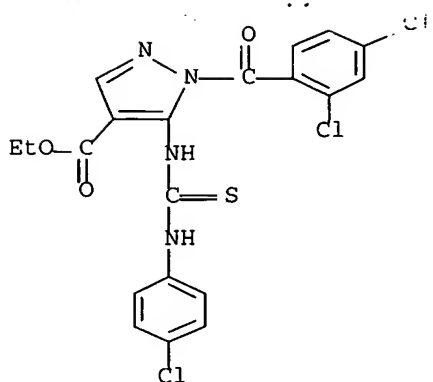
RN 129190-83-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-benzoyl-5-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



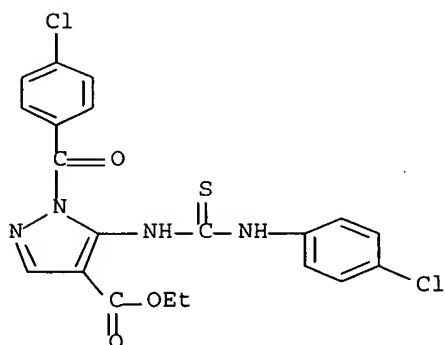
RN 129190-84-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 5-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-1-(2,4-dichlorobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



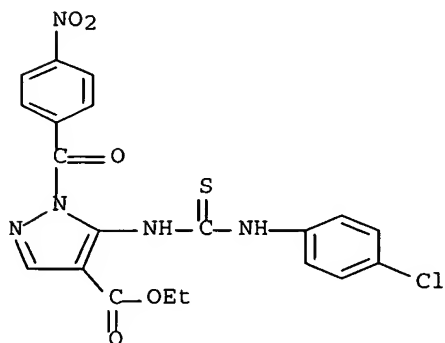
RN 129190-85-8 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-chlorobenzoyl)-5-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



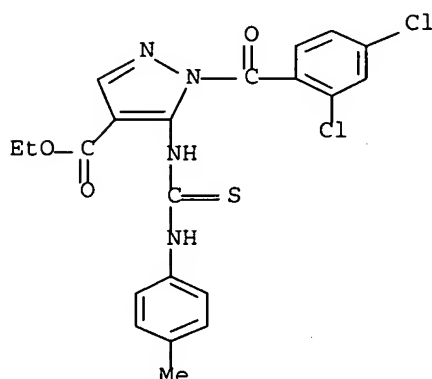
RN 129190-88-1 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 5-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-1-(4-nitrobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)

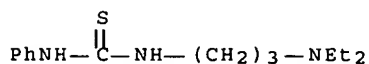


RN 129190-89-2 HCAPLUS

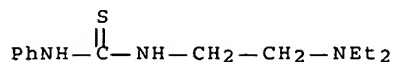
CN 1H-Pyrazole-4-carboxylic acid, 1-(2,4-dichlorobenzoyl)-5-[4-(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI). (CA INDEX NAME)



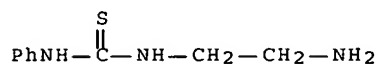
L49 ANSWER 151 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:122166 HCAPLUS Full-text  
 DOCUMENT NUMBER: 114:122166  
 TITLE: Synthesis and pharmacological investigations of 3-(aminoalkylene)-1-aryl-2-thioxo-4,5-imidazolidinedione and 2,4,5-imidazolidinetrione derivatives  
 AUTHOR(S): Zankowska-Jasinska, Wanda; Borowiec, Halina; Golus, Janusz; Kolasa, Anna; Zaleska, Barbara; Krzywosinski, Leszek; Bogdal, Maria; Przemysk, Barbara  
 CORPORATE SOURCE: Dep. Org. Chem., Jagiellonian Univ., Krakow, 30-060, Pol.  
 SOURCE: Polish Journal of Pharmacology and Pharmacy (1990), 42(1), 49-58  
 CODEN: PJPPAA; ISSN: 0301-0244  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 06 Apr 1991  
 AB New derivs. of 2-thioxo-4,5-imidazolidinedione I (X = S; R = Ph; 3-MeOC6H4, 4-EtO2CC6H4; NR1R2 = NH2, NEt2, 2,3-dioxopiperaziny1; n = 2, 3) and 2,4,5-imidazolidinetrione I (X = O, R = Ph, R1R2 = NEt2, 2,3-dioxopiperaziny1, n = 2) were synthesized by N,N'-acylation of asym. thioureas and ureas by oxalyl chloride. I were screened for their central action, mainly anticonvulsant activity, but showed no useful activity.  
 IT 730-19-8 889-28-1 31090-77-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of, with oxalyl chloride)  
 RN 730-19-8 HCAPLUS  
 CN Thiourea, N-[3-(diethylamino)propyl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 889-28-1 HCAPLUS  
 CN Thiourea, N-[2-(diethylamino)ethyl]-N'-phenyl- (9CI) (CA INDEX NAME)

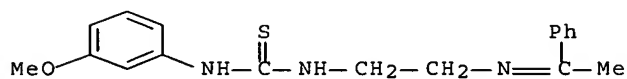


RN 31090-77-4 HCAPLUS  
 CN Thiourea, N-(2-aminoethyl)-N'-phenyl- (9CI) (CA INDEX NAME)

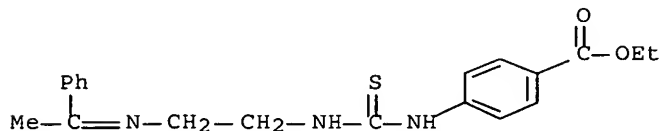


IT 132411-90-6P 132411-91-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

RN 132411-90-6 HCAPLUS  
 CN Thiourea, N-(3-methoxyphenyl)-N'-[2-[(1-phenylethylidene)amino]ethyl]-  
 (9CI) (CA INDEX NAME)



RN 132411-91-7 HCAPLUS  
 CN Benzoic acid, 4-[[[2-[(1-phenylethylidene)amino]ethyl]amino]thioxomethyl]  
 amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 152 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:235249 HCAPLUS Full-text  
 DOCUMENT NUMBER: 112:235249  
 TITLE: Polycyclic azine with heteroatoms in 1,3-positions.  
 24. Synthesis of purine heterocycles with  
 dihydrothiazole or 1,3-dihydrothiazine ring linear  
 anellated to the pyrimidine moiety  
 AUTHOR(S): Doerre, R.; Wagner, G.

CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ., Leipzig, DDR-7010, CORP. SOURCE

Ger. Dem. Rep.

SOURCE: Pharmazie (1989), 44(8), 533-5

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 112:235249

ED Entered STN: 23 Jun 1990

AB Reaction of aminoimidazolecarboxylate I ( $R = H$ ,  $R_1 = R_2 = Me$ ) with  $CSCl_2$  in  $CH_2Cl_2-H_2O$  gave 70% Me 4-isocyanato-1,2-dimethylimidazole-5-carboxylate (II) which on addition reaction with  $NH_2CH_2CR_3:CH_2$  in  $CHCl_3$  gave 23-38% I ( $R = NHCSNHCH_2CR_3:CH_2$ ,  $R_1 = R_2 = Me$ ,  $R_3 = H, Me$ ) (III). III were also prepared by the reaction of I ( $R = H$ ,  $R_1 = R_2 = Me$ ) with  $CH_2:CR_3CH_2NCS$  in  $CHCl_3$ . Addition reaction of II with  $H_2N(CH_2)nOH$  ( $n = 2, 3$ ) in  $CHCl_3$  gave 83-87% I [ $R = NHCSNH(CH_2)nOH$ ,  $R_1 = R_2 = Me$ ] (IV). Cyclization of III and IV with  $NaOH$  gave thioxopurine V ( $R_4 = CH_2CH:CH_2$ ,  $CH_2CMe:CH_2$ ,  $CH_2CH_2OH$ ,  $CH_2CH_2CH_2OH$ ) which on  $HCl$ -mediated cyclization gave thiazolopurines VI ( $R_3 = H, Me$ ) and thiazinopurines VII ( $n = 2, 3$ ). The reaction of I ( $R = H$ ,  $R_1 = Ph$ ,  $R_2 = H$ ) was also studied.

IT 126418-11-9P 126418-12-0P 126418-13-1P

126418-14-2P 126418-22-2P 126418-23-3P

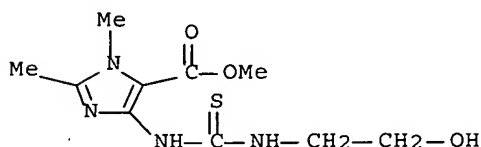
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RAC (Reactant or reagent)

(preparation and base-mediated cyclization of)

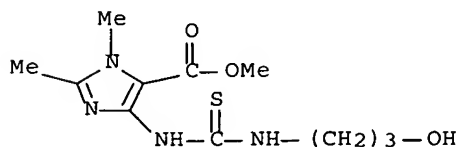
RN 126418-11-9 HCAPLUS

CN 1H-Imidazole-5-carboxylic acid, 4-[[[(2-hydroxyethyl)amino]thioxomethyl]amino]-1,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



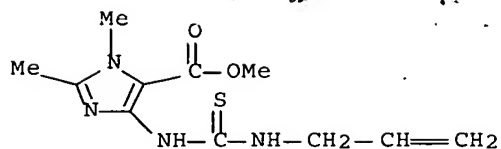
RN 126418-12-0 HCAPLUS

CN 1H-Imidazole-5-carboxylic acid, 4-[[[(3-hydroxypropyl)amino]thioxomethyl]amino]-1,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

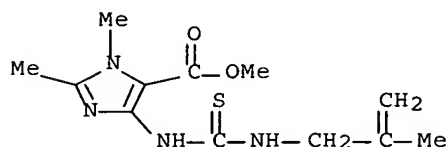


RN 126418-13-1 HCAPLUS

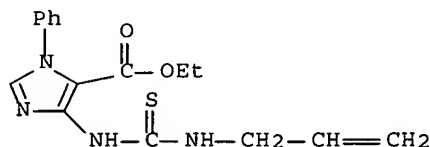
CN 1H-Imidazole-5-carboxylic acid, 1,2-dimethyl-4-[[[(2-propenylamino)thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



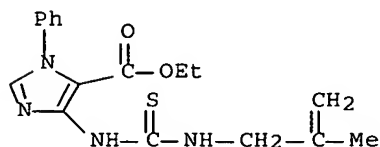
RN 126418-14-2 HCAPLUS  
 CN 1H-Imidazole-5-carboxylic acid, 1,2-dimethyl-4-[[[(2-methyl-2-propenyl)amino]thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



RN 126418-22-2 HCAPLUS  
 CN 1H-Imidazole-5-carboxylic acid, 1-phenyl-4-[[[(2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 126418-23-3 HCAPLUS  
 CN 1H-Imidazole-5-carboxylic acid, 4-[[[(2-methyl-2-propenyl)amino]thioxomethyl]amino]-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 153 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:158147 HCAPLUS Full-text  
 DOCUMENT NUMBER: 112:158147  
 TITLE: Novel ring-opening reactions of 3-substituted  
 1-amino-2-thioxo-4-imidazolidinones. Preparation of



functionalized 3,6-dihydro-2H-1,3,4-thiadiazines and 3,4-dihydro-1H-1,2,4-triazoles

AUTHOR(S): Molina, Pedro; Arques, Antonio; Cartagena, Inmaculada; Olmos, José Maria

CORPORATE SOURCE: Fac. Cienc., Univ. Murcia, Murcia, E-30001, Spain

SOURCE: Synthesis (1989), (7), 518-22  
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:158147

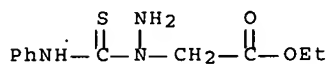
ED Entered STN: 28 Apr 1990

AB Treatment of imidazolidines I (R = Ph, Et) with R1COCH2Br (R1 = p-O2NC6H4, p-anisyl, Ph, p-BrC6H4, p-ClC6H4) gave 45-70% 10 thiadiazine salts II (same R, R1; R2 = Me, Et). I also reacted with R1NCS (R1 = Ph, p-ClC6H4, p-BrC6H4) to give 65-83% 5 imidazolidines III which rearranged to give 49-98% 8 dihydrotriazoles IV (B = base).

IT 107166-86-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of, with phenylacetyl bromides)

RN 107166-86-9 HCAPLUS

CN Acetic acid, [1-[(phenylamino)thioxomethyl]hydrazino]-, ethyl ester (9CI)  
(CA INDEX NAME)



L49 ANSWER 154 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:234757 HCAPLUS Full-text

DOCUMENT NUMBER: 112:234757

TITLE: Thiourea derivatives of carbohydrates. Part XIII.  
Syntheses of partially protected D-galactopyranosylthioureas: new D-galactopyranosylimidazoline-2-thiones and D-galactopyranosylaminothiazoles

AUTHOR(S): Fuentes Mota, Jose; Garcia Fernandez, Jose Manuel; Ortiz Mellet, Carmen; Pradera Adrian, Maria Angeles; Babiano Caballero, Reyes

CORPORATE SOURCE: Fac. Quim., Univ. Sevilla, Sevilla, 41071, Spain

SOURCE: Carbohydrate Research (1989), 193, 314-21  
CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:234757

ED Entered STN: 23 Jun 1990

AB Thiourea derivs. I [R = NHC(S)NHCH2C(O)C6H4R2-p, R1 = H, R2 = H, Me, OMe, Br] were prepared from I (R = NCS) and p-R2C6H4COCH2NH2·HCl. I [R = NH(S)NHCH2C(O)C6H4R2-p] were cyclized in Ac2O to give thiazoles I (R = R3). I (R = NCS, R1 = H, Bz) and MeCOCH2NH2·HCl gave imidazoethiones I (R = R4).

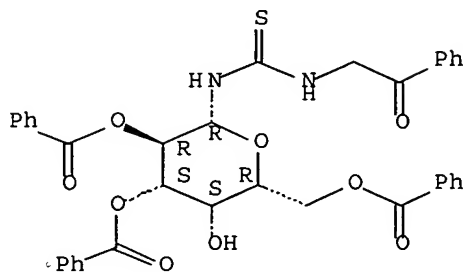
IT 127293-17-8P 127293-18-9P 127293-19-0P  
127293-20-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and intramol. cyclization of)

RN 127293-17-8 HCAPLUS

CN Thiourea, N-(2-oxo-2-phenylethyl)-N'-(2,3,6-tri-O-benzoyl-β-D-

galactopyranosyl)- (9CI) (CA INDEX NAME)

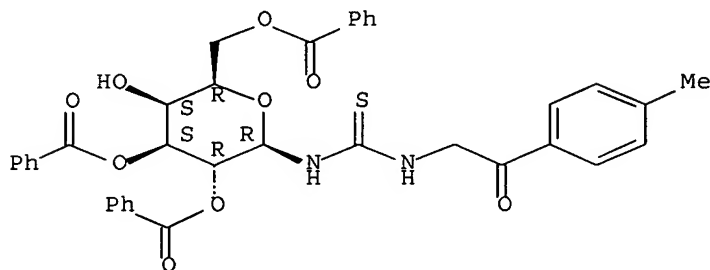
Absolute stereochemistry.



RN 127293-18-9 HCAPLUS

CN Thiourea, N-[2-(4-methylphenyl)-2-oxoethyl]-N'-(2,3,6-tri-O-benzoyl-β-D-galactopyranosyl)- (9CI) (CA INDEX NAME)

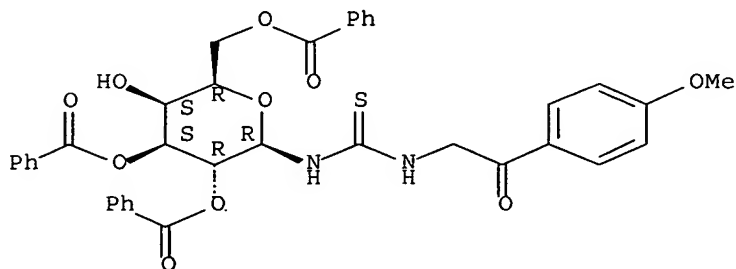
Absolute stereochemistry.



RN 127293-19-0 HCAPLUS

CN Thiourea, N-[2-(4-methoxyphenyl)-2-oxoethyl]-N'-(2,3,6-tri-O-benzoyl-β-D-galactopyranosyl)- (9CI) (CA INDEX NAME)

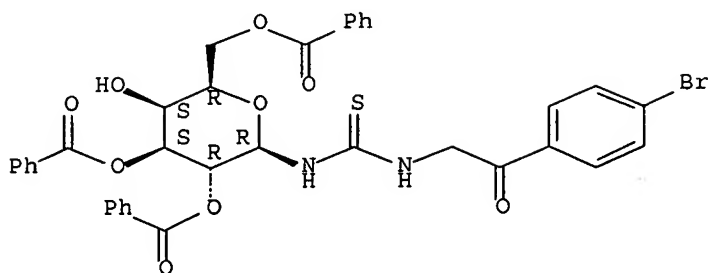
Absolute stereochemistry.



RN 127293-20-3 HCAPLUS

CN Thiourea, N-[2-(4-bromophenyl)-2-oxoethyl]-N'-(2,3,6-tri-O-benzoyl-β-D-galactopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 155 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:534075 HCAPLUS Full-text

DOCUMENT NUMBER: 111:134075

TITLE: Synthesis of (imidazo[1,2-c]pyrimidin-2-yl)phenylmethanones and 6-benzoylpyrrolo[2,3-d]pyrimidinones

AUTHOR(S): Danswan, Geoffrey; Kennewell, Peter D.; Tully, W. Roger

CORPORATE SOURCE: Roussel Lab. Ltd., Wiltshire, SN3 5BZ, UK

SOURCE: Journal of Heterocyclic Chemistry (1989), 26(2), 293-9

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:134075

ED Entered STN: 14 Oct 1989

AB 4-Pyrimidinamines have been reacted with 3-bromo-1-phenylpropane-1,2-dione to give a series of (imidazopyrimidinyl)phenylmethanones I (R1 = MeO, MeS; R2 = Me, Et, MeS, MeO, EtO, H, Pr, CH2:CHCH2). The dione also reacted with Et amidinoacetate to yield Et 2-amino-5-benzoylpyrrole-2-carboxylate which was used to prepare a series of benzoylpyrrolopyrimidines II (R3 = H, Me, null; R4 = O, S, MeO, MeS; R5 = H, Me).

IT 122380-09-0P

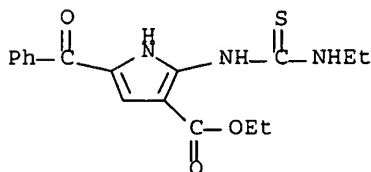
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization reaction of, pyrrolopyrimidinedione from)

RN 122380-09-0 HCAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 5-benzoyl-2-[[[(ethylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1989:457680 HCAPLUS Full-text  
 DOCUMENT NUMBER: 111:57680  
 TITLE: Polycyclic azines with heteroatoms in the 1- and 3-positions. Part 22. A facile synthesis of 2-(alkylthio)-4-aminothieno[2,3-d]pyrimidines  
 AUTHOR(S): Leistner, Siegfried; Guetschow, Michael; Wagner, Guenther  
 CORPORATE SOURCE: Bereich Chem. Biol. Akt. Verbindungen, Karl-Marx-Univ., Leipzig, DDR-7010, Ger. Dem. Rep.  
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1989), 322(4), 227-30  
 CODEN: ARPMAS; ISSN: 0365-6233  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 111:57680

ED Entered STN: 20 Aug 1989

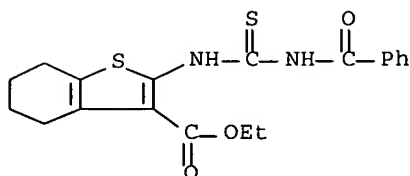
AB The reaction of 2-benzoylthiouredothiophene-3-carbonitriles I [R = R1 = Me; RR1 = (CH2)4] with diluted NaOH yields 4-aminothieno[2,3-d]pyrimidin-2(1H)-thiones II (X = S). I react with alkyl halides in alkaline solution in one step to give 2-alkylthio-4-aminothieno[2,3-d]pyrimidines III (R2 = Me, CH2CH2OH, CH2COPh, Et, CH2CO2Et) in good yields. Hydrolysis of III affords 4-amino-thieno[2,3-d]pyrimidin-2(1H)-ones II (X = O). The mass spectral fragmentations of II are discussed.

IT 53162-41-7 53162-53-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)

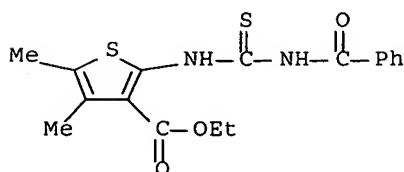
RN 53162-41-7 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 53162-53-1 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

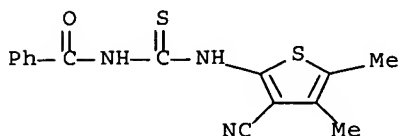


IT 121746-07-4P 121746-08-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

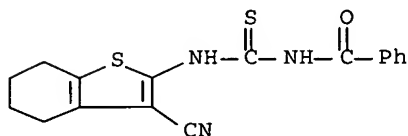
RN 121746-07-4 HCAPLUS

CN Benzamide, N-[[[3-cyano-4,5-dimethyl-2-thienyl)amino]thioxomethyl]- (9CI)  
(CA INDEX NAME)



RN 121746-08-5 HCAPLUS

CN Benzamide, N-[[[3-cyano-4,5,6,7-tetrahydrobenzo[b]thien-2-yl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 157 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:423835 HCAPLUS Full-text

DOCUMENT NUMBER: 113:23835

TITLE: Synthesis of new thieno[2,3-d]pyrimidine derivatives

AUTHOR(S): Ibrahim, Laila I.; Tammam, Gamal H.; Abdin, Talat M.  
S.

CORPORATE SOURCE: Fac. Educ., Cairo Univ., Egypt

SOURCE: Journal of the Chemical Society of Pakistan (1989), 11(3), 227-31

CODEN: JCSPDF; ISSN: 0253-5106

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:23835

ED Entered STN: 21 Jul 1990

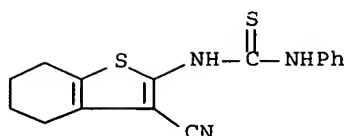
AB Title compds. I, II, and III were prepared E.g., refluxing aminothiophene derivative IV with HCONH2 gave 73% thienopyrimidine II.

IT 127749-73-9P

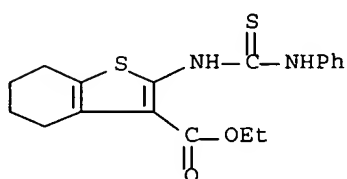
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 127749-73-9 HCAPLUS

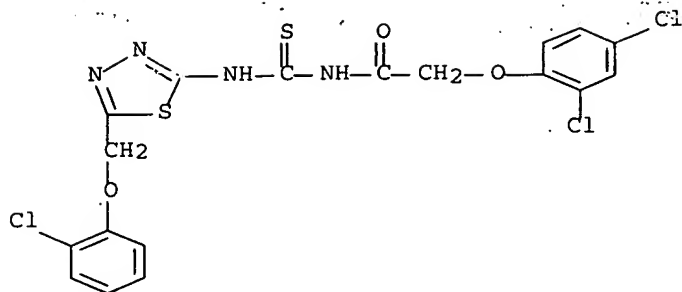
CN Thiourea, N-(3-cyano-4,5,6,7-tetrahydrobenzo[b]thien-2-yl)-N'-phenyl- (9CI) (CA INDEX NAME)



IT **42076-12-0P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 42076-12-0 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
 [[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 158 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:574062 HCAPLUS Full-text  
 DOCUMENT NUMBER: 111:174062  
 TITLE: Synthesis and fungicidal activities of some  
 2-aryloxymethyl-1,3,4-thiadiazolo[2,3-b]quinazolin-4-  
 ones and 2-aryloxymethyl-5-substituted  
 1,3,4-thiadiazolo[3,2-a]-1,3,5-triazine-7-thiones  
 AUTHOR(S): Tiwari, Nirupama; Chaturvedi, Banadana; Nizamuddin  
 CORPORATE SOURCE: Chem. Dep., Univ. Gorakhpur, Gorakhpur, 273 009, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic  
 Chemistry Including Medicinal Chemistry (1989  
 ), 28B(2), 200-2  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 111:174062  
 ED Entered STN: 10 Nov 1989  
 AB Aryloxymethylthiadiazolo[2,3-b]quinazolinones I (R = 2-Cl, 4-Me, 3-Me-4-Cl,  
 2,3-Me2, 2,4-Me2) and aryloxymethylthiadiazolo[3,2-a]triazinethiones II (R1 =  
 4-Cl, 2,4-Cl2, 2-Cl, 3,4-Me2; R2 = Ph, Me, CH2OC6H3Cl2-2,4) have been  
 synthesized and screened for their antifungal activity against Aspergillus  
 niger and Helminthosporium oryzae.  
 IT **123216-83-1P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and intramol. cyclization of)  
 RN 123216-83-1 HCAPLUS  
 CN Acetamide, N-[[[5-[(2-chlorophenoxy)methyl]-1,3,4-thiadiazol-2-  
 yl]amino]thioxomethyl]-2-(2,4-dichlorophenoxy)- (9CI) (CA INDEX NAME)



L49 ANSWER 159 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:495756 HCAPLUS Full-text

DOCUMENT NUMBER: 111:95756

TITLE: Synthesis of N-(5-vinyl-1,3-thiazolidin-2-ylidene)phenylamine and analysis of oils implicated in the Spanish toxic oil syndrome for its presence

AUTHOR(S): Bernert, J. T., Jr.; Pendergrast, A. H.; Ashley, D. L.; Patterson, D. G., Jr.; Kilbourne, E. M.; Alexander, L. R.; Posada de la Paz, M.; Abaitua Borda, I.

CORPORATE SOURCE: Cent. Environ. Health Injury Control, Public Health Serv., Atlanta, GA, 30333, USA

SOURCE: Food and Chemical Toxicology (1989), 27(3), 159-64

CODEN: FCTOD7; ISSN: 0278-6915

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:95756

ED Entered STN: 16 Sep 1989

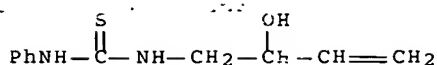
AB Previous reports have implicated 1-phenyl-5-vinyl imidazolidine-2-thione (PVIPT), a cyclic reaction product of aniline and naturally occurring rapeseed oil isothiocyanates, as the potential causative agent of the Spanish toxic oil syndrome (TOS). This report describes the synthesis, preliminary characterization, and anal. of that reaction product, which has been identified as N-(5-vinyl-1,3-thiazolidin-2-ylidene)phenylamine (5-VTPA) rather than PVIPT. Oil samples that contained fatty acid anilides and were epidemiol. linked to TOS were analyzed for the presence of 5-VTPA by extraction of the oil with methanol and clean-up on an ion-exchange column, followed by capillary gas chromatog.-mass spectrometry using selected ion detection. A limit of detection of <500 ppb was established for these analyses. No 5-VTPA could be detected, however, in any of the TOS oils. As 5-VTPA was shown to be unstable in both heated and unheated food oils, it is possible that the compound had been lost from the oils since the time of the epidemic in 1981. However, no direct evidence for the involvement of 5-VTPA in TOS could be obtained in this study.

IT 115921-45-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)

RN 115921-45-4 HCAPLUS

CN Thiourea, N-(2-hydroxy-3-butenyl)-N'-phenyl- (9CI) (CA INDEX NAME)

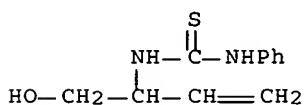


IT 122327-88-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 122327-88-2 HCAPLUS

CN Thiourea, N-[1-(hydroxymethyl)-2-propenyl]-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 160 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:632713 HCAPLUS Full-text

DOCUMENT NUMBER: 111:232713

TITLE: Polycyclic amines with heteroatoms at 1 and 3 positions. Part 23. Preparation of thiazolo[3,2-a]thieno[2,3-d]pyrimidines and structurally related 1,3-thiazino compounds from ethyl 2-hydroxyalkylthioureidothiophene-3-carboxylate

AUTHOR(S): Leistner, S.; Gutschow, M.; Wagner, G.

CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ., Leipzig, DDR-7010, Ger. Dem. Rep.

SOURCE: Pharmazie (1989), 44(2), 153-4

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 111:232713

ED Entered STN: 23 Dec 1989

AB Addition reaction of thiophene derivative I [R = NH<sub>2</sub>, R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>), CH<sub>2</sub>N(CH<sub>2</sub>Ph)CH<sub>2</sub>CH<sub>2</sub>; R<sub>1</sub> = Ph, R<sub>2</sub> = H] with CH<sub>2</sub>:CHCH<sub>2</sub>NCS gave 48-69% I (R = NHCSNHCH<sub>2</sub>CH:CH<sub>2</sub>), whereas aminolysis of I [R = NCS, R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>)<sub>4</sub>; R<sub>1</sub> = R<sub>2</sub> = Me; R<sub>1</sub> = H, R<sub>2</sub> = Ph] with amino alcs. gave 45-85% I (R = NHgCXNHR<sub>3</sub>, R<sub>3</sub> = CH<sub>2</sub>CH<sub>2</sub>OH, CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH, CMe<sub>2</sub>CH<sub>2</sub>OH). Acid-mediated cyclization of I (R = NHCSNHR<sub>3</sub>, R<sub>3</sub> = same, CH<sub>2</sub>CH:CH<sub>2</sub>) gave title compds. II [R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>)<sub>4</sub>, R<sub>4</sub>-R<sub>6</sub> = H, n = 0, 1, R<sub>4</sub> = H, R<sub>5</sub>, R<sub>6</sub> = Me, n = 0; R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>4</sub>-R<sub>6</sub> = H, n = 1; R<sub>1</sub> = H, R<sub>2</sub> = Ph, R<sub>4</sub>-R<sub>6</sub> = H, n = 0; R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>)<sub>3</sub>, CH<sub>2</sub>N(CH<sub>2</sub>Ph)CH<sub>2</sub>CH<sub>2</sub>, R<sub>1</sub> = Ph, R<sub>2</sub> = H, R<sub>3</sub> = Me, R<sub>4</sub> = R<sub>5</sub> = H, n = 0].

IT 102623-30-3P 124009-41-2P 124009-42-3P

124009-43-4P 124009-44-5P 124009-45-6P

124009-46-7P 124009-47-8P

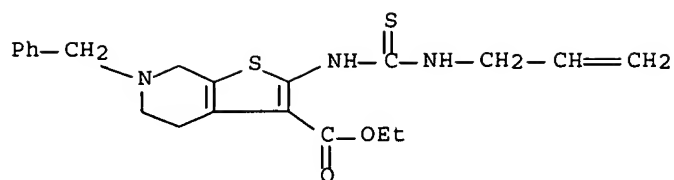
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and acid-mediated cyclization reaction of)

RN 102623-30-3 HCAPLUS

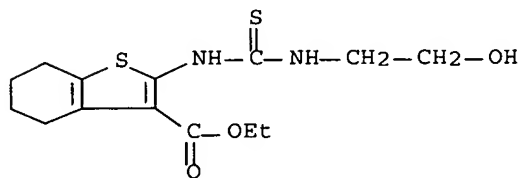
CN Thieno[2,3-c]pyridine-3-carboxylic acid, 4,5,6,7-tetrahydro-6-(phenylmethyl)-2-[[[(2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)





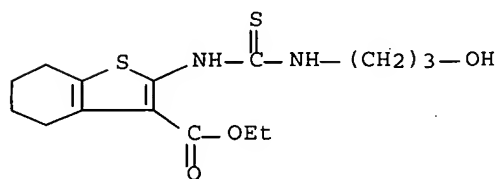
RN 124009-41-2 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(2-hydroxyethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



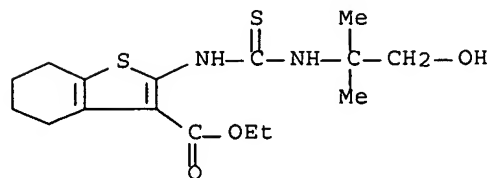
RN 124009-42-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(3-hydroxypropyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



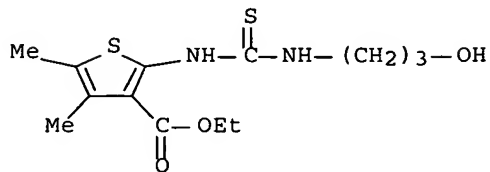
RN 124009-43-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(2-hydroxy-1,1-dimethylethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



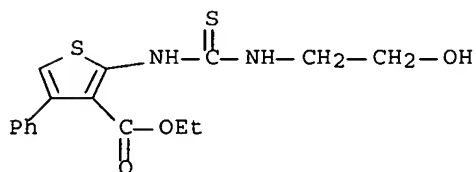
RN 124009-44-5 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(3-hydroxypropyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



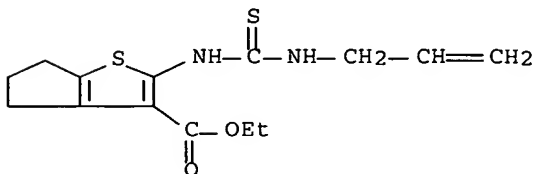
RN 124009-45-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(2-hydroxyethyl)amino]thioxomethyl]amino]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



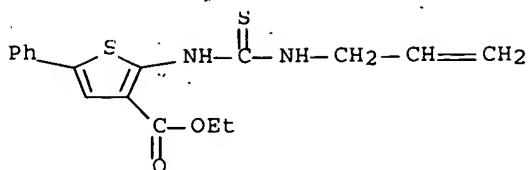
RN 124009-46-7 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 5,6-dihydro-2-[[[(2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 124009-47-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 5-phenyl-2-[[[(2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 161 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:515111 HCAPLUS Full-text

DOCUMENT NUMBER: 111:115111

TITLE: Acylthiosemicarbazides and related heterocyclic compounds. XII. Synthesis of 1-( $\alpha$ -phenylcyanoacetyl-amino)-3-arylthiourea and 3-( $\alpha$ -phenylcyanomethyl)-4-aryl-1,2,4-triazole-5-thiol derivatives

AUTHOR(S): Zhang, Ziyi; Chen, Limin; Feng, Xiaoming; Zeng, Fuli

CORPORATE SOURCE: Dep. Chem., Lanzhou Univ., Lanzhou, Peop. Rep. China

SOURCE: Youji Huaxue (1989), 9(2), 150-5

CODEN: YCHHDX; ISSN: 0253-2786

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 111:115111

ED Entered STN: 01 Oct 1989

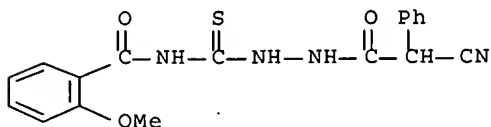
AB Refluxing PhCH(CN)CONHNH<sub>2</sub> with RCONCS [R = (un)substituted Ph,  $\alpha$ -naphthyl, 2-thienyl, PhCH:CH] in MeCN gave 65.3-97.6% PhCH(CN)CONHNHC(S)NHCOR (I), cyclization of which with aqueous NaOH gave 61.2-96.4% triazolethiols III. I (R = 2-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>) showed strong promoting activity on the growth of plumule of wheat at 10<sup>-3</sup>-10<sup>-1</sup> ppm.

IT 122194-43-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 122194-43-8 HCAPLUS

CN Benzeneacetic acid,  $\alpha$ -cyano-, 2-[[[(2-methoxybenzoyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



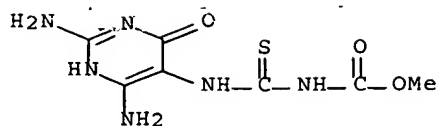
IT 122194-49-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, cyclization, and plant growth hormone activity of)

RN 122194-49-4 HCAPLUS

CN Benzeneacetic acid,  $\alpha$ -cyano-, 2-[[[(2-nitrobenzoyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)





L49 ANSWER 163 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:58035 HCAPLUS Full-text

DOCUMENT NUMBER: 110:58035

TITLE: Spontaneous cyclization of a chain-shortened lysine analog

AUTHOR(S): Ranganathan, S.; Ranganathan, D.; Singh, W. P.

CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Kanpur, 208016, India

SOURCE: Tetrahedron Letters (1988), 29(25), 3111-14

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:58035

ED Entered STN: 17 Feb 1989

AB Chain-shortened analogs of lysine,  $\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}(\text{NHZ})\text{CO}_2\text{R}$  ( $\text{Z} = \text{PhCH}_2\text{O}_2\text{C}$ ;  $\text{R} = \text{Me}$ ,  $4\text{-O}_2\text{NC}_6\text{H}_4$ ,  $4\text{-O}_2\text{NC}_6\text{H}_4\text{CH}_2$ ), generated from N-protected glutamine esters, undergo spontaneous cyclization. Thus, amino acids having  $\text{H}_2\text{NCH}_2\text{CH}_2$  side chains cannot be supported on tRNA, and provides a rationale for keeping the amino group of lysine by as many as four methylenes away from the peptide backbone. In sharp contrast, in the peptide environment,  $\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}(\text{NHZ})\text{CO-X-OMe}$  ( $\text{X} = \text{Gly}$ ,  $\text{Phe}$ ,  $\text{Leu}$ ), this unit is stable, thus demonstrating that if they are post translationally created, they can be present as viable side chains in proteins.

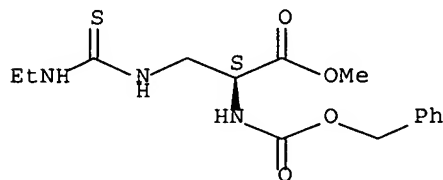
IT 118507-55-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and thermal cyclization of)

RN 118507-55-4 HCAPLUS

CN L-Alanine, 3-[[[(ethylamino)thioxomethyl]amino]-N-[(phenylmethoxy)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



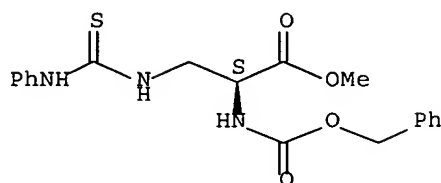
IT 118507-54-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

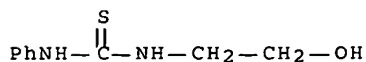
RN 118507-54-3 HCAPLUS

CN L-Alanine, 3-[[[(phenylamino)thioxomethyl]amino]-N-[(phenylmethoxy)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

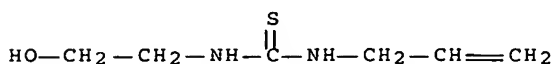
Absolute stereochemistry.



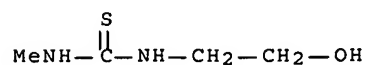
L49 ANSWER 164 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:423460 HCAPLUS Full-text  
 DOCUMENT NUMBER: 111:23460  
 TITLE: Reaction of phosphorous acid dialkylamides with  
 N-(hydroxyalkyl)-N'-substituted thioureas. New  
 synthesis of 2-iminothiazolidine and  
 2-iminoperhydro-1,3-thiazine derivatives  
 AUTHOR(S): Mizrakh, L. I.; Polonskaya, L. Yu.; Gvozdetskii, A.  
 N.; Vasil'ev, A. M.; Karpunina, L. B.  
 CORPORATE SOURCE: Inst. Biofiz., Moscow, USSR  
 SOURCE: Zhurnal Obshchei Khimii (1988), 58(10),  
 2246-51  
 CODEN: ZOKHA4; ISSN: 0044-460X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 111:23460  
 ED Entered STN: 21 Jul 1989  
 AB Treatment of (hydroxyalkyl)thioureas RNHC(S)NR1(CH2)nCHR2OH (R = Me, Ph,  
 alkyl; R1 = H, Me, CH2CH2OH; R2 = H, Me; n = 1, 2) with phosphorous acid  
 dialkylamides P(NEt2)3 or (R3O)2PNEt2 (R3 = Pr or R32 = CH2CH2) afforded title  
 thiazolidine or thiazine derivs. I.  
 IT 102-12-5 105-81-7 3120-26-1 5137-50-8  
23309-78-6 29146-63-2 90914-63-9  
109315-14-2 121215-87-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclization of, in presence of phosphorous acid  
 dialkylamide)  
 RN 102-12-5 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-phenyl- (9CI) (CA INDEX NAME)



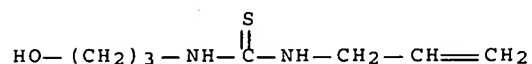
RN 105-81-7 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)



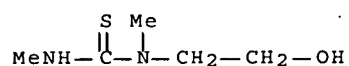
RN 3120-26-1 HCAPLUS  
CN Thiourea, N-(2-hydroxyethyl)-N'-methyl- (9CI) (CA INDEX NAME)



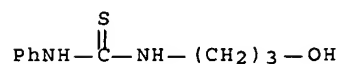
RN 5137-50-8 HCAPLUS  
CN Thiourea, N-(3-hydroxypropyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)



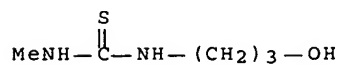
RN 23309-78-6 HCAPLUS  
CN Thiourea, N-(2-hydroxyethyl)-N,N'-dimethyl- (9CI) (CA INDEX NAME)



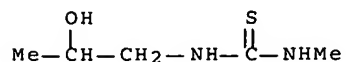
RN 29146-63-2 HCAPLUS  
CN Thiourea, N-(3-hydroxypropyl)-N'-phenyl- (9CI) (CA INDEX NAME)



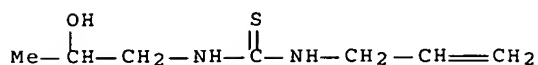
RN 90914-63-9 HCAPLUS  
CN Thiourea, N-(3-hydroxypropyl)-N'-methyl- (9CI) (CA INDEX NAME)



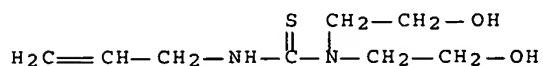
RN 109315-14-2 HCAPLUS  
CN Thiourea, N-(2-hydroxypropyl)-N'-methyl- (9CI) (CA INDEX NAME)



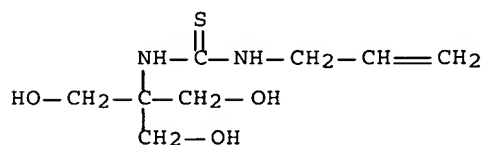
RN 121215-87-0 HCAPLUS  
 CN Thiourea, N-(2-hydroxypropyl)-N'-(2-propenyl)- (9CI) (CA INDEX NAME)



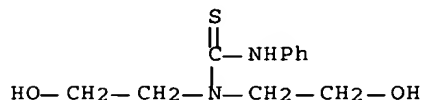
IT 5137-48-4P 121215-67-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 5137-48-4 HCAPLUS  
 CN Thiourea, N,N-bis(2-hydroxyethyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)



RN 121215-67-6 HCAPLUS  
 CN Thiourea, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-N'-2-propenyl- (9CI)  
 (CA INDEX NAME)



IT 2740-67-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 2740-67-2 HCAPLUS  
 CN Thiourea, N,N-bis(2-hydroxyethyl)-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 165 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:477951 HCAPLUS Full-text  
 DOCUMENT NUMBER: 111:77951



TITLE: One-pot synthesis of 3-aryl-2,3-dihydro-2-thioxobenzofuro[3,2-d]pyrimidin-4(1H)-ones

AUTHOR(S): Reddy, B. Saida; Reddy, A. Panduranga; Veeranagaiah, V.

CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(12), 1131-3  
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:77951

ED Entered STN: 03 Sep 1989

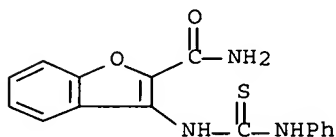
AB Reaction of 3-aminobenzofuran-2-carboxamide with RNCS (R = Ph, 4-MeC<sub>6</sub>H<sub>4</sub>, 4-ClC<sub>6</sub>H<sub>4</sub>, 4-BrC<sub>6</sub>H<sub>4</sub>) under different conditions results into 3-aryl-2,3-dihydro-2-thioxobenzofuro[3,2-d]pyrimidin-4(1H)-ones I, through the intermediate 1-(2-carbamoyl-3-benzofuranyl)-2-thio-3-arylureas II.

IT 121997-03-3P 121997-04-4P 121997-05-5P  
121997-06-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

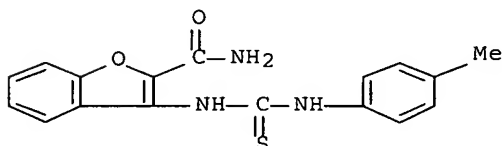
RN 121997-03-3 HCAPLUS

CN 2-Benzofurancarboxamide, 3-[[[(phenylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



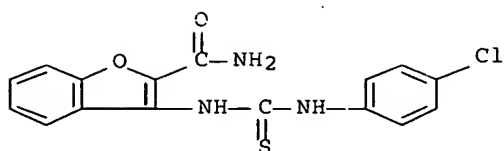
RN 121997-04-4 HCAPLUS

CN 2-Benzofurancarboxamide, 3-[[[(4-methylphenyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)

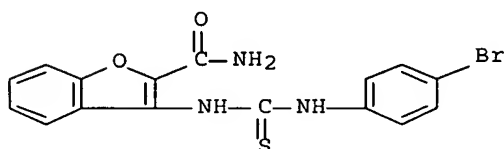


RN 121997-05-5 HCAPLUS

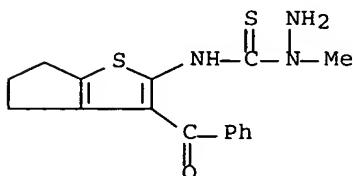
CN 2-Benzofurancarboxamide, 3-[[[(4-chlorophenyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



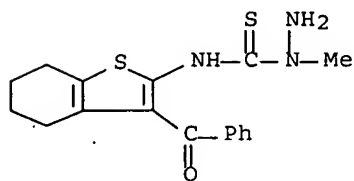
RN 121997-06-6 HCAPLUS  
 CN 2-Benzofurancarboxamide, 3-[[[(4-bromophenyl)amino]thioxomethyl]amino]-  
 (9CI) (CA INDEX NAME)



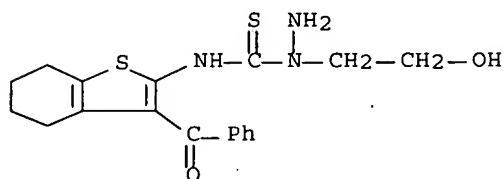
L49 ANSWER 166 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:173200 HCAPLUS Full-text  
 DOCUMENT NUMBER: 110:173200  
 TITLE: Synthesis of 3-alkyl-5-phenyl-2-thioxo-3H-1,2-dihydrocycloalka[4,5]thieno[2,3-e][1,2,4]triazepines  
 AUTHOR(S): Richter, P.; Oertel, Doerte; Oertel, F.  
 CORPORATE SOURCE: Sekt. Pharm., Ernst-Moritz-Arndt-Univ., Greifswald, Ger. Dem. Rep.  
 SOURCE: Pharmazie (1988), 43(11), 753-5  
 CODEN: PHARAT; ISSN: 0031-7144  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 110:173200  
 ED Entered STN: 12 May 1989  
 AB The title compds. I (n = 1, 2; R = Me, CH2CH2OH) were prepared by thermal cyclization of thiosemicarbazides II (R1 = NHCSNRNH2), obtained from II (R1 = NH2) via II (R1 = NHCSOC6H4Cl-4, isothiocyanate). Cyclization of the phenylthiosemicarbazone of II (R1 = NH2, n = 2) gave the thienopyrimidine III.  
 IT 119934-33-7P 119934-34-8P 119934-35-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 119934-33-7 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(3-benzoyl-5,6-dihydro-4H-cyclopenta[b]thien-2-yl)-1-methyl- (9CI) (CA INDEX NAME)



RN 119934-34-8 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(3-benzoyl-4,5,6,7-tetrahydrobenzo[b]thien-2-yl)-1-methyl- (9CI) (CA INDEX NAME)



RN 119934-35-9 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(3-benzoyl-4,5,6,7-tetrahydrobenzo[b]thien-2-yl)-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 167 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:621918 HCAPLUS Full-text  
 DOCUMENT NUMBER: 109:221918  
 TITLE: Polycyclic azines with heteroatoms at the 1- and 3-positions. Part 20. One-step synthesis of 2-aminothieno[2,3-d][1,3]thiazin-4-ones from ethyl 2-benzoylthioureidothiophene-3-carboxylates and evaluation of their anti-allergy activity  
 AUTHOR(S): Leistner, S.; Guetschow, M.; Wagner, G.; Grupe, Renate; Boehme, Beatrix  
 CORPORATE SOURCE: Sekt. Biowiss, Karl-Marx-Univ., Leipzig, Ger. Dem. Rep.  
 SOURCE: Pharmazie (1988), 43(7), 466-70  
 CODEN: PHARAT; ISSN: 0031-7144  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 ED Entered STN: 24 Dec 1988  
 AB The treatment of 7 Et 2-benzoylthioureidothiophene-3-carboxylates (I, R1 = Me, pyridyl; R2 = H, Me, CO2Et; R1R2 = alkylene, alkynylene, alkyleneiminoalkylene), obtained from the reaction of Et 2-aminothiophene-3-carboxylates with benzoyl isothiocyanate, with concentrated H2SO4 or polyphosphoric acid-EtOH caused cyclization to the corresponding 2-aminothieno[2,3-d][1,3]thiazin-4-ones (II). II had weak anti-allergic effects in a rat active cutaneous anaphylaxis test and high concns. inhibited histamine release by rat peritoneal mast cells.  
 IT 53162-41-7P 53162-53-1P 55056-27-4P

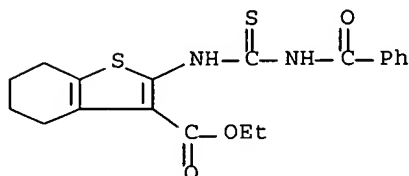
102609-55-2P 117516-89-9P 117516-90-2P

117516-91-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

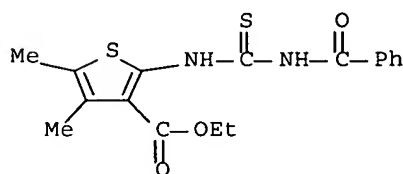
RN 53162-41-7 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-  
4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



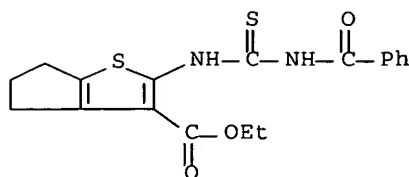
RN 53162-53-1 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-4,5-  
dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



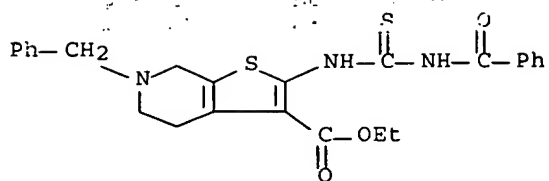
RN 55056-27-4 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 2-  
[[[(benzoylamino)thioxomethyl]amino]-5,6-dihydro-, ethyl ester (9CI) (CA  
INDEX NAME)



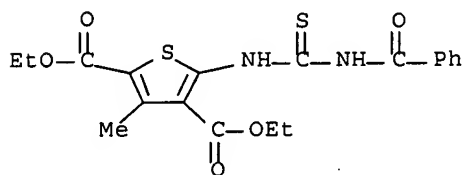
RN 102609-55-2 HCAPLUS

CN Thieno[2,3-c]pyridine-3-carboxylic acid, 2-[[[(benzoylamino)thioxomethyl]am-  
ino]-4,5,6,7-tetrahydro-6-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX  
NAME)



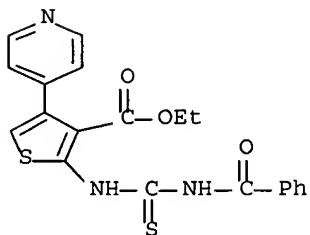
RN 117516-89-9 HCAPLUS

CN 2,4-Thiophenedicarboxylic acid, 5-[[[(benzoylamino)thioxomethyl]amino]-3-methyl-, diethyl ester (9CI) (CA INDEX NAME)



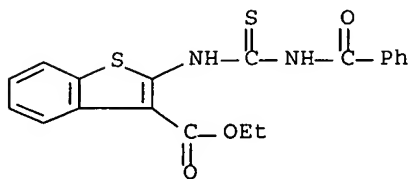
RN 117516-90-2 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-4-(4-pyridinyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 117516-91-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1988:590371 HCAPLUS Full-text

DOCUMENT NUMBER: 109:190371

TITLE: Transformations of 1-(2-chloropyridyl-3)-4-ethoxycarbonyl- and 1-(2-chloropyridyl-3)-4-ethoxycarbonylmethyl thiosemicarbazides. Attempts to prepare pyrido[3,2-e]-1,2,4-thiadiazine

AUTHOR(S): Koren, Bozidar; Stanovnik, Branko; Tisler, Miha

CORPORATE SOURCE: Dep. Chem., Edvard Kardelj Univ., Ljubljana, YU-61000, Yugoslavia

SOURCE: Monatshefte fuer Chemie (1988), 119(3), 333-9

CODEN: MOCMB7; ISSN: 0026-9247

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:190371

ED Entered STN: 25 Nov 1988

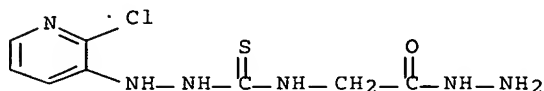
AB 2-Chloro-3-hydrazinopyridine (I, R = H) was converted with ethoxycarbonyl and ethoxycarbonylmethyl isothiocyanates into 1,4-disubstituted thiosemicarbazides I [R = CSNH(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>Et, n = 0,1 (II)] while with Ph isothiocyanate directly 1H-pyrido[3,2-e]-1,3,4-thiadiazine III (R1 = Ph) was formed. Attempts to cyclize the thiosemicarbazides II into pyridothiadiazine derivs. III (R1 = CO<sub>2</sub>Et, CH<sub>2</sub>CO<sub>2</sub>Et) failed. In the reaction of II (n = 0) with hydrazine, 2-aminothiazolo[5,4-b]pyridine IV was formed, while II (n = 1) gave only the corresponding hydrazide I (R = CSNHCH<sub>2</sub>CONHNH<sub>2</sub>) (V). Cyclization of V, or cyclocondensation of II (n = 1) with EtO<sub>2</sub>CC.tplbond.CCO<sub>2</sub>Et, gave chloropyridyl(oxadiazolinyl)hydrazine derivs.

IT 117087-48-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 117087-48-6 HCAPLUS

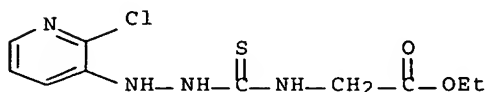
CN Glycine, N-[[2-(2-chloro-3-pyridinyl)hydrazino]thioxomethyl]-, hydrazide  
(9CI) (CA INDEX NAME)

IT 117087-47-5P

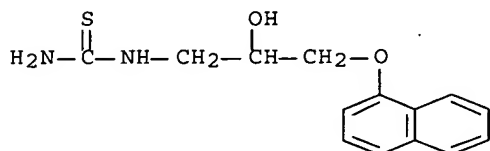
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclocondensation reactions of)

RN 117087-47-5 HCAPLUS

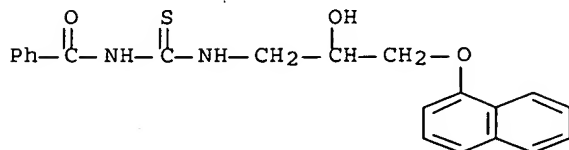
CN Glycine, N-[[2-(2-chloro-3-pyridinyl)hydrazino]thioxomethyl]-, ethyl ester  
(9CI) (CA INDEX NAME)



L49 ANSWER 169 OF 320 HCAPLUS: COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:610956 HCAPLUS Full-text  
 DOCUMENT NUMBER: 109:210956  
 TITLE: Synthesis of positive inotropic substances.  
 Aryloxyalkylguanidines  
 AUTHOR(S): Buschauer, Armin  
 CORPORATE SOURCE: Inst. Pharm., Freie Univ. Berlin, Berlin, D-1000/33,  
 Fed. Rep. Ger.  
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1988  
 ), 321(5), 281-5  
 CODEN: ARPMAS; ISSN: 0365-6233  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 109:210956  
 ED Entered STN: 10 Dec 1988  
 AB Guanidines I (n = 2, 3) and II (R = 3-piperidinomethylphenyl, Ph, 1-naphthyl)  
 were prepared via N-benzoylcarboximide or N-cyanocarboximide  
 intermediates. I and II are ≤20 times more active than histamine in the  
 guinea pig atrium test. II (R = Ph) had a chronotropic effect similar to that  
 of impromidine but only about half the inotropic effect.  
 IT 106670-21-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 106670-21-7 HCAPLUS  
 CN Thiourea, [2-hydroxy-3-(1-naphthalenyloxy)propyl]- (9CI) (CA INDEX NAME)

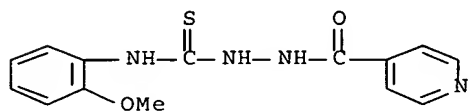


IT 106670-20-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and debenzoylation of)  
 RN 106670-20-6 HCAPLUS  
 CN Benzamide, N-[[[2-hydroxy-3-(1-naphthalenyloxy)propyl]amino]thioxomethyl]-  
 (9CI) (CA INDEX NAME)

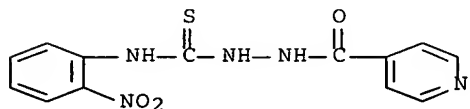


L49 ANSWER 170 OF 320 HCAPLUS: COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:590328 HCAPLUS Full-text

DOCUMENT NUMBER: 109:190328  
 TITLE: Studies on acyl thiosemicarbazides and related heterocycles. (V). Synthesis of 1-isonicotinoyl-4-arylthiosemicarbazides and related nitrogen, sulfur and oxygen 5-membered heterocycles  
 AUTHOR(S): Zhang, Ziyi; Yang, Kexin; Zeng, Fuli  
 CORPORATE SOURCE: Dep. Chem., Lanzhou Univ., Lanzhou, Peop. Rep. China  
 SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1988), 9(3), 239-45  
 CODEN: KTHPDM; ISSN: 0251-0790  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 OTHER SOURCE(S): CASREACT 109:190328  
 ED Entered STN: 25 Nov 1988  
 AB Title compds. thiosemicarbazides I, triazolinethiones II, thiadiazoles III, and oxadiazoles IV [R = (un)substituted Ph] were prepared I showed plant growth promoting activity.  
 IT 74270-73-8P 117080-27-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation, cyclization, and plant growth hormone activity of)  
 RN 74270-73-8 HCAPLUS  
 CN 4-Pyridinecarboxylic acid, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



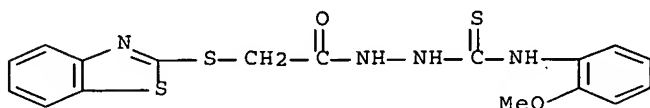
RN 117080-27-0 HCAPLUS  
 CN 4-Pyridinecarboxylic acid, 2-[[[(2-nitrophenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



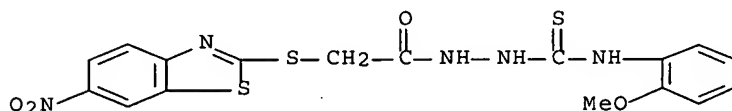
L49 ANSWER 171 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:549441 HCAPLUS Full-text  
 DOCUMENT NUMBER: 109:149441  
 TITLE: Synthesis of some new thiosemicarbazides. Triazoles and thiadiazoles derived from (2-benzothiazolylthio)acetic acid hydrazides  
 AUTHOR(S): Murthy, G. Rama; Reddy, V. Malla; Mogilaiah, K.  
 CORPORATE SOURCE: Univ. Coll. Pharm. Sci., Kakatiya Univ., Warangal, 506009, India  
 SOURCE: Sulfur Letters (1988), 7(5), 171-9  
 CODEN: SULED2; ISSN: 0278-6117



DOCUMENT TYPE: JMSJournal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 109:149441  
 ED Entered STN: 28 Oct 1988  
 AB 4-Aryl-1-[(2-benzothiazolylthio)acetyl]-3-thiosemicarbazides I (R = H, O<sub>2</sub>N; R<sub>1</sub> = C(S)NHR<sub>2</sub>; R<sub>2</sub> = Ph, o-tolyl, C<sub>6</sub>H<sub>4</sub>OMe-o, CH<sub>2</sub>Ph) were prepared by the addition reaction of I (R<sub>1</sub> = H) with R<sub>2</sub>NCS. Thiosemicarbazides I, when cyclized sep. with NaOH or H<sub>2</sub>SO<sub>4</sub>, gave the resp. triazoles II and thiadiazoles III. The structures of II and III were confirmed by anal. and spectral (IR, NMR, and mass) studies.  
 IT 116710-44-2P 116710-48-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, with sodium hydroxide or sulfuric acid, triazole or thiadiazole from)  
 RN 116710-44-2 HCAPLUS  
 CN Acetic acid, (2-benzothiazolylthio)-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 116710-48-6 HCAPLUS  
 CN Acetic acid, [(6-nitro-2-benzothiazolyl)thio]-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 172 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:491387 HCAPLUS Full-text  
 DOCUMENT NUMBER: 109:91387  
 TITLE: 1-Phenyl-5-vinyl-2-imidazolidinethione, a proposed causative agent of Spanish toxic oil syndrome: synthesis, and identification in one of a group of case-associated oil samples  
 AUTHOR(S): Kammuller, M. E.; Verhaar, H. J. M.; Versluis, C.; Terlouw, J. K.; Brandsma, L.; Penninks, A. H.; Seinen, W.  
 CORPORATE SOURCE: Dep. Vet. Pharmacol., Univ. Utrecht, Utrecht, 3572 BP, Neth.  
 SOURCE: Food and Chemical Toxicology (1988), 26(2), 119-27  
 CODEN: FCTOD7; ISSN: 0278-6915  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

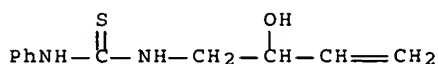
ED Entered STN: 17 Sep 1988

AB The synthesis and characterization of N-(2-hydroxy-3-butenyl)-N'-phenylthiourea, and its cyclization product, 1-phenyl-5-vinyl-2-imidazolidinethione (PVIKT) are described. Fourteen coded oil samples associated with toxic oil syndrome cases in Spain were examined by gas chromatog.-electron impact mass spectrometry for the presence of PVIKT. Although these samples were obtained from households where cases of toxic oil syndrome had been recorded, they differed extremely with regard to their anilide and S contents. PVIKT was detected in 1 sample at an estimated concentration of 1 mg/kg. Most of the oil samples associated with toxic oil syndrome were low-erucic acid rape oil containing reaction products with aniline. The reaction of aniline with a progoitrin decomposition product and subsequent cyclization could form PVIKT.

IT 115921-45-4P, N-(2-Hydroxy-3-butenyl)-N'-phenylthiourea  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 115921-45-4 HCAPLUS

CN Thiourea, N-(2-hydroxy-3-butenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 173 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:407293 HCAPLUS Full-text

DOCUMENT NUMBER: 111:7293

TITLE: Synthesis of 3-(2-chloropropenyl)-5-arylamino-1,2,4-thiadiazoles

AUTHOR(S): Sridevi, G.; Rao, P. Jayaprasad; Reddy, K. Kondal

CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India

SOURCE: Sulfur Letters (1988), 8(2), 101-6  
 CODEN: SULED2; ISSN: 0278-6117

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:7293

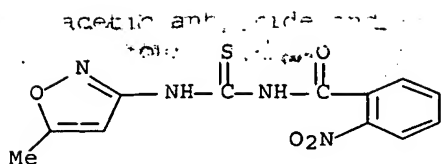
ED Entered STN: 08 Jul 1989

AB Reaction of 3-amino-5-methylisoxazole I (R = H) with R1CONCS (R1 = Ph, substituted Ph) in acetone at room temperature yielded (5-methylisoxazol-3-yl)thioureas I (R = NHC(S)NHCOR1; II). The products obtained on reaction of II with PCl5 in POCl3 or POCl3 were identified as E and Z-isomers of 3-(2-chloropropenyl)-5-arylamino-1,2,4-thiadiazoles III.

IT 120765-06-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, thiadiazoles from)

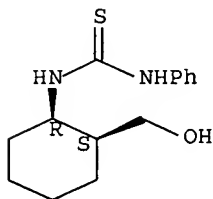
RN 120765-06-2 HCAPLUS

CN Benzamide, N-[[[5-methyl-3-isoxazolyl)amino]thioxomethyl]-2-nitro- (9CI) (CA INDEX NAME)



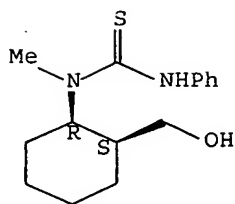
L49 ANSWER 174 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:528928 HCAPLUS Full-text  
 DOCUMENT NUMBER: 109:128928  
 TITLE: Saturated heterocycles. Part 105. Synthesis of stereoisomeric 2-phenylimino-3,1-perhydrobenzoxazines and 3,1-perhydrobenzothiazines  
 AUTHOR(S): Fulop, Ferenc; Bernath, Gabor; Csirinyi, Gyorgy  
 CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Med. Sch., Szeged, H-6701, Hung.  
 SOURCE: Organic Preparations and Procedures International (1988), 20(1-2), 73-82  
 CODEN: OPPIAK; ISSN: 0030-4948  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 109:128928  
 ED Entered STN: 14 Oct 1988  
 AB 2-(Thioureido)cyclohexanemethanols I (R1 = H, Me, PhCH2) were treated with MeOH and then with KOH to give benzoxazines II. III were obtained by treatment of I with HCl.  
 IT 116246-88-9P 116246-89-0P 116246-90-3P  
116246-91-4P 116246-92-5P 116246-93-6P  
116246-94-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 116246-88-9 HCAPLUS  
 CN Thiourea, N-[2-(hydroxymethyl)cyclohexyl]-N'-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 116246-89-0 HCAPLUS  
 CN Thiourea, N-[2-(hydroxymethyl)cyclohexyl]-N-methyl-N'-phenyl-, cis- (9CI) (CA INDEX NAME)

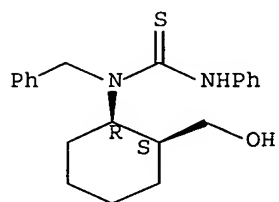
Relative stereochemistry.



RN 116246-90-3 HCAPLUS

CN Thiourea, N-[2-(hydroxymethyl)cyclohexyl]-N'-phenyl-N-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

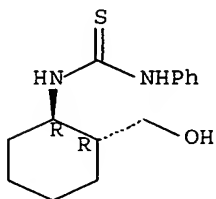
Relative stereochemistry.



RN 116246-91-4 HCAPLUS

CN Thiourea, N-[2-(hydroxymethyl)cyclohexyl]-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

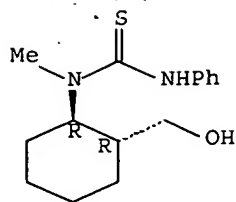
Relative stereochemistry.



RN 116246-92-5 HCAPLUS

CN Thiourea, N-[2-(hydroxymethyl)cyclohexyl]-N-methyl-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

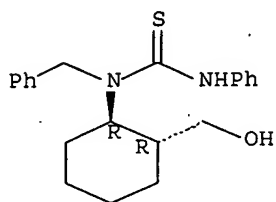
Relative stereochemistry.



RN 116246-93-6 HCAPLUS

CN Thiourea, N-[2-(hydroxymethyl)cyclohexyl]-N'-phenyl-N-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

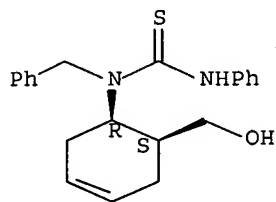
Relative stereochemistry.



RN 116246-94-7 HCAPLUS

CN Thiourea, N-[6-(hydroxymethyl)-3-cyclohexen-1-yl]-N'-phenyl-N-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L49 ANSWER 175 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:24196 HCAPLUS Full-text

DOCUMENT NUMBER: 110:24196

TITLE: Thiourea derivatives of carbohydrates. X. Synthesis of glucopyrano[2,1-d]-2-thiazoline hydrobromide

AUTHOR(S): Avalos Gonzalez, M.; Moreno, P. Cintas; Gomez Monterrey, I. Maria; Jimenez Requejo, J. L.; Palacios Albarran, J. C.

CORPORATE SOURCE: Fac. Cienc., Univ. Extremadura, Badajoz, 06071, Spain

SOURCE: Anales de Quimica, Serie C: Quimica Organica y Bioquimica (1988), 84(1), 5-11

CODEN: AQSB D6; ISSN: 0211-1357

DOCUMENT TYPE: Journal  
LANGUAGE: Spanish  
OTHER SOURCE(S): CASREACT 110:24196  
ED Entered STN: 21 Jan 1989

AB Treatment of aminodeoxyglucopyranose I (R = R1 = H) with MeNCS in CH2Cl2 afforded 2-methylthioureido derivative I [R = H, R1 = MeNHC(S)]. 2-Alkylthioureido derivs. I [R = H, R1 = R2NHCCS), where R2 = Pr, Me2CH, Bu] were obtained from isothiocyanate I (RR1 = CS) and alkylamines R2NH2. I [R = H, R1 = R2NHC(S)] underwent HBr-promoted cyclization to glucopyrano[2,1-d]-2-thiazolines II. The conformations of II were studied by NMR.

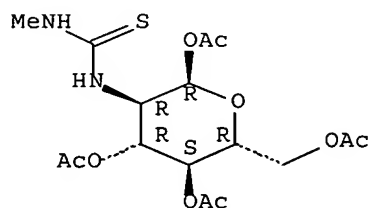
IT 118091-60-4P 118091-61-5P 118091-62-6P  
118091-63-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, cyclization, and spectra of)

RN 118091-60-4 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[ (methylamino)thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

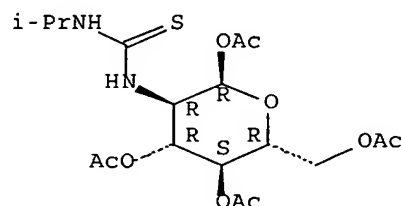
Absolute stereochemistry.



RN 118091-61-5 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[[(1-methylethyl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

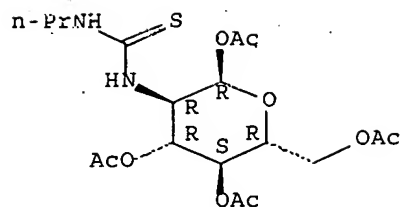
Absolute stereochemistry.



RN 118091-62-6 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[ (propylamino)thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

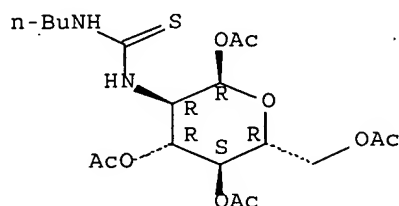
Absolute stereochemistry.



RN 118091-63-7 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-[[[(butylamino)thioxomethyl]amino]-2-deoxy-,  
1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 176 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:510801 HCAPLUS Full-text

DOCUMENT NUMBER: 109:110801

TITLE: Thiourea derivatives of carbohydrates. Part XII.  
Syntheses of D-ribosylamines, D-ribopyranosyl  
isothiocyanates, and D-ribopyranosylthioureas,  
and their transformations into heterocyclic compounds

AUTHOR(S): Fuentes Mota, Jose; Pradera Adrian, Maria Angeles;  
Ortiz Mellet, Carmen; Garcia Fernandez, Jose Manuel;  
Babiano Caballero, Reyes; Galbis Perez, Juan Antonio

CORPORATE SOURCE: Fac. Quim., Univ. Sevilla, Sevilla, 41071, Spain

SOURCE: Carbohydrate Research (1988), 173(1), 1-16

CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:110801

ED Entered STN: 01 Oct 1988

AB The synthesis of 2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosylamine hydrobromide and 2,3,4-tri-O-benzoyl- $\beta$ -D-ribopyranosylamine from D-ribosylamine, via ribosylenamines, is reported. The reaction of 2,3,4-tri-O-benzoyl- $\beta$ -D-ribopyranosylamine hydrobromide with thiophosgene in a basic medium yields 2,3,4-tri-O-benzoyl-I) and - $\beta$ -D-ribopyranosyl isothiocyanate (II). 5-Methyl-1-(2,3,4-tri-O-benzoyl- $\beta$ -D-ribopyranosyl)-4-ribopyranosyl isothiocyanate (II). 5-Methyl-1-(2,3,4-tri-O-benzoyl- $\beta$ -D-ribopyranosyl)-4-imidazoline-2-thione (III) was obtained by reaction of II with aminoacetone hydrochloride. Treatment of I and II with phenylacetylamine hydrochlorides gave the N-phenacyl-N'-(2,3,4-tri-O-benzoyl-  $\alpha$ - and - $\beta$ -D-ribopyranosyl)thioureas. The 5-aryl-2-(2,3,4-tri-O-benzoyl- $\alpha$ - and - $\beta$ -D-ribopyranosylamino)thiazoles (IV; R= Ph,

substituted Ph) were prepared by cyclodehydration with acetic anhydride and phosphoric acid of the corresponding phenylacetylribopyranothioureas.

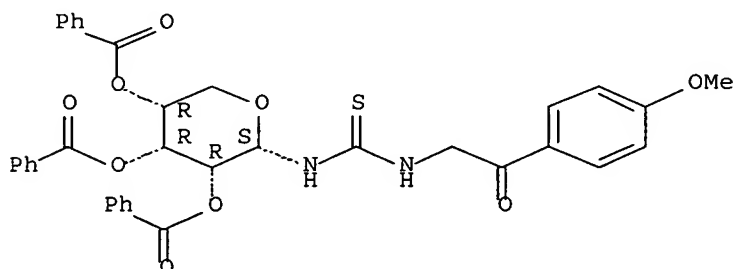
IT 116156-55-9 116156-56-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)

RN 116156-55-9 HCAPLUS

CN Thiourea, N-[2-(4-methoxyphenyl)-2-oxoethyl]-N'-(2,3,4-tri-O-benzoyl- $\alpha$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

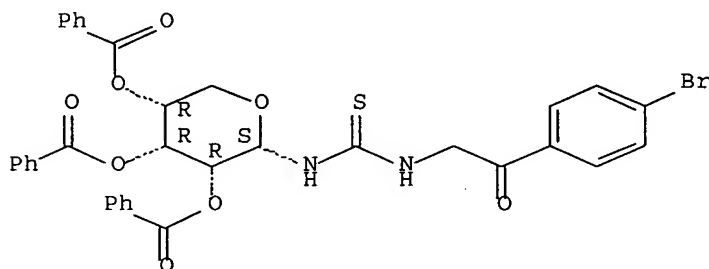
Absolute stereochemistry.



RN 116156-56-0 HCAPLUS

CN Thiourea, N-[2-(4-bromophenyl)-2-oxoethyl]-N'-(2,3,4-tri-O-benzoyl- $\alpha$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 116156-67-3P 116156-68-4P 116156-69-5P  
116156-70-8P 116156-71-9P

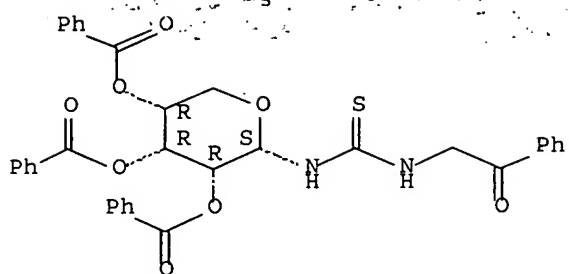
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 116156-67-3 HCAPLUS

CN Thiourea, N-(2-oxo-2-phenylethyl)-N'-(2,3,4-tri-O-benzoyl- $\alpha$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

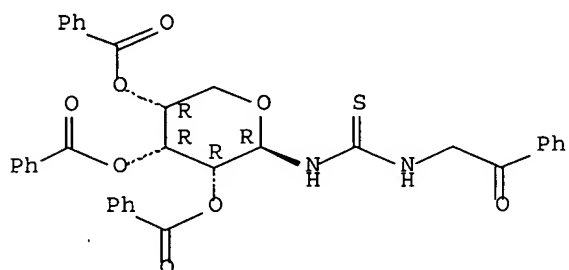




RN 116156-68-4 HCAPLUS

CN Thiourea, N-(2-oxo-2-phenylethyl)-N'-(2,3,4-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

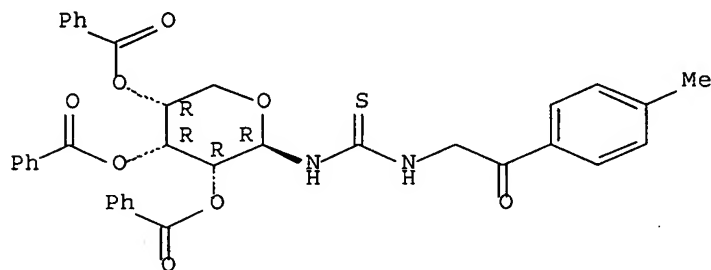
Absolute stereochemistry.



RN 116156-69-5 HCAPLUS

CN Thiourea, N-[2-(4-methylphenyl)-2-oxoethyl]-N'-(2,3,4-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

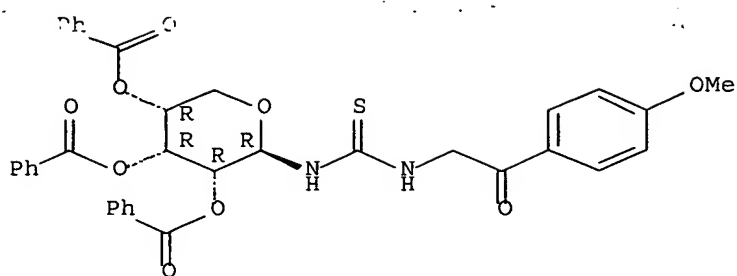
Absolute stereochemistry.



RN 116156-70-8 HCAPLUS

CN Thiourea, N-[2-(4-methoxyphenyl)-2-oxoethyl]-N'-(2,3,4-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

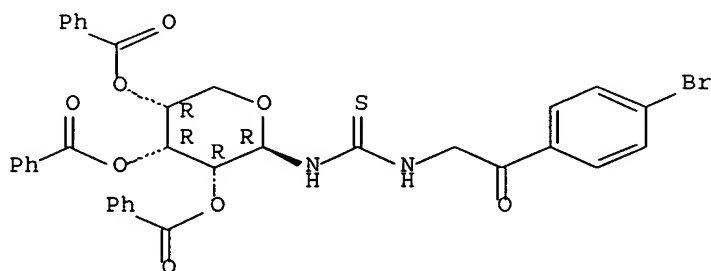
Absolute stereochemistry.



RN 116156-71-9 HCAPLUS

CN Thiourea, N-[2-(4-bromophenyl)-2-oxoethyl]-N'-(2,3,4-tri-O-benzoyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 177 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:95150 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 110:95150

TITLE: Synthesis of 3-(4-aryl-3-mercapto-4H-1,2,4-triazol-5-ylmethyl)-2-methyl-4(3H)quinazolinones

AUTHOR(S): Reddy, A. Malla; Ramamurthy, G.; Reddy, V. Malla; Mogilaiah, K.

CORPORATE SOURCE: Coll. Pharm. Sci., Kakatiya Univ., Warangal, 506 009, India

SOURCE: Sulfur Letters (1988), 8(1), 1-9

CODEN: SULED2; ISSN: 0278-6117

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:95150

ED Entered STN: 17 Mar 1989

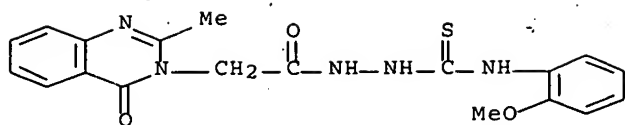
AB Treating hydrazides I (R = H, Br; R1 = H) with R2NCS (R2 = Ph, 2-MeC6H4, PhCH2, 2-MeOC6H4, 3-MeOC6H4, 4-BrC6H4, 2-ClC6H4) gave I (R = H, Br; R1 = CSNHR2) which were treated with aqueous NaOH to give the title compds. II.

IT [118974-53-1P](#) [118974-60-0P](#)

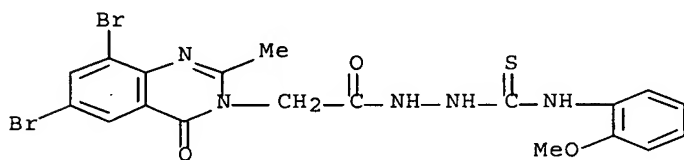
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 118974-53-1 HCAPLUS

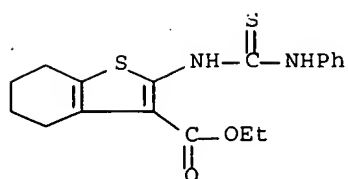
CN 3(4H)-Quinazolineacetic acid, 2-methyl-4-oxo-, 2-[[2-(methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 118974-60-0 HCAPLUS  
 CN 3(4H)-Quinazolineacetic acid, 6,8-dibromo-2-methyl-4-oxo-,  
 2-[[2-methoxyphenyl]amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

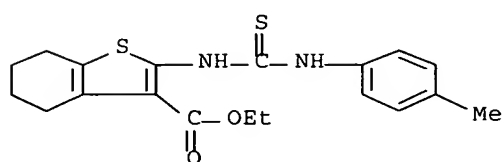


L49 ANSWER 178 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:636657 HCAPLUS Full-text  
 DOCUMENT NUMBER: 107:236657  
 TITLE: Methyl N-aryldithiocarbamates. Useful reagents for the  
 annulation of pyrimidines and 1,3-oxazines to  
 five-membered heterocyclic rings  
 AUTHOR(S): Garin, Javier; Pilar Loscertales, Maria; Melendez,  
 Enrique; Merchan, Francisco L.; Rodriguez, Ricardo;  
 Tejero, Tomas  
 CORPORATE SOURCE: Inst. Cienc. Mater. Aragon, Univ. Zaragoza, Zaragoza,  
 50009, Spain  
 SOURCE: Heterocycles (1987), 26(5), 1303-12  
 CODEN: HTCYAM; ISSN: 0385-5414  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 107:236657  
 ED Entered STN: 25 Dec 1987  
 AB Cyclocondensation of RNHCS<sub>2</sub>Me (I; R = Ph, 4-MeC<sub>6</sub>H<sub>4</sub>, 4-MeOC<sub>6</sub>H<sub>4</sub>, 4-ClC<sub>6</sub>H<sub>4</sub>, etc.)  
 with 5-membered heterocycles, e.g. thiophene II (R<sub>1</sub> = Et) in the presence of  
 NaOH gave 2-thioxopyrimidine III (X = S). A similar cyclocondensation of I  
 with the sodium salt II (R<sub>1</sub> = Na) in the presence of HgO in DMF at 100 °C gave  
 2,4-dioxopyrimidine III (X = O). However, at 20 °C, the same reaction gave  
 oxazine IV.  
 IT 42076-12-0P 59898-55-4P 65233-90-1P  
111423-07-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 42076-12-0 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
 [[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



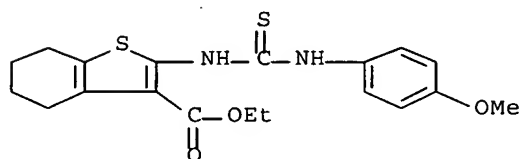
RN 59898-55-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



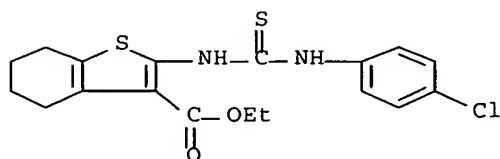
RN 65233-90-1 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

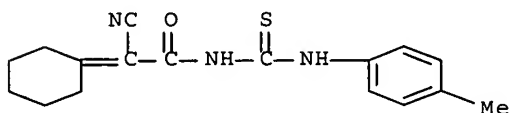


RN 111423-07-5 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

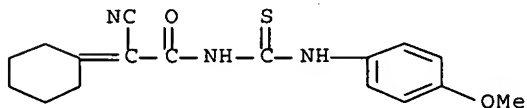


ACCESSION NUMBER: 1988:94488 HCAPLUS Full-text  
 DOCUMENT NUMBER: 108:94488  
 TITLE: Synthesis of 1,3-diazaspiro[5.5]undecanes and  
 1-thia-3-azaspiro[5.5]undec-2-enes by reaction of  
 2-cyanocyclohexylideneacetyl isothiocyanate  
 with amines and sodium hydrogen sulfide  
 AUTHOR(S): Dzurilla, Milan; Forgac, Ondrej; Kutschy, Peter;  
 Kristian, Pavol; Koscik, Dusan; Imrich, Jan  
 CORPORATE SOURCE: Dep. Org. Chem. Biochem., P. J. Safarik Univ., Kosice,  
 041 67, Czech.  
 SOURCE: Collection of Czechoslovak Chemical Communications ( 1987 ), 52(4), 989-94  
 CODEN: CCCCAK; ISSN: 0366-547X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 108:94488  
 ED Entered STN: 19 Mar 1988  
 AB Cyclocondensation of NaSHs with cyanocyclohexylideneacetyl isothiocyanate (I,  
 R = CONCS) (II) gave azathiaspiro[5.5]undecane derivative III (X = S) in 21%  
 yield. Cyclocondensation of 4-R1C6H4NH2 (R1 = H, Me, Me2N, HO, MeO, Br) with  
 II gave III (X = 4-R1C6H4N)9. With R1 = Me and OMe, intermediate thiourea  
 derivs. I (R = CONHCSNHC6H4R1-4) were isolated. Cyclocondensation of II with  
 PhNHR2 (R2 = Me, Ph) gave azathiaspiro[5.5]undecene derivs. IV in 33 and 57%  
 yields, resp.  
 IT 113002-01-0P 113002-02-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and ring closure of, with sodium hydroxide)  
 RN 113002-01-0 HCAPLUS  
 CN Acetamide, 2-cyano-2-cyclohexylidene-N-[[ (4-methylphenyl) amino] thioxomethy  
 l]- (9CI) (CA INDEX NAME)

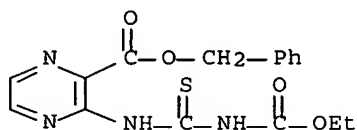


RN 113002-02-1 HCAPLUS

CN Acetamide, 2-cyano-2-cyclohexylidene-N-[[ (4-methoxyphenyl) amino] thioxometh  
 yl]- (9CI) (CA INDEX NAME)



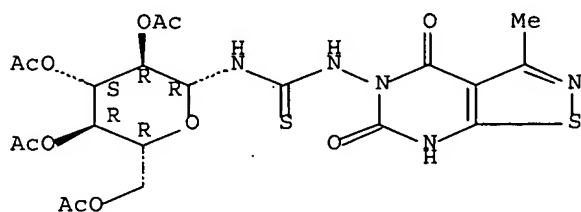
TITLE: Transformations of 1,2,4-thiadiazolo[2,3-x]azines  
AUTHOR(S): Koren, Bozidar; Stanovnik, Branko; Tisler, Miha  
CORPORATE SOURCE: Dep. Chem., Edvard Kardelj Univ., Ljubljana, 61000, Yugoslavia  
SOURCE: Heterocycles (1987), 26(3), 689-97  
CODEN: HTCYAM; ISSN: 0385-5414  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 108:94482  
ED Entered STN: 19 Mar 1988  
AB Reactions of the title compds. were investigated. Thus, hydrolysis of the 1,2,4-thiadiazolo[2,3-c]pyrimidine I gave the pyrimidine II. The thiadiazolopyridine III underwent ring expansion in hydrolysis to give the pyridopyrimidine IV, which was treated with phenacyl bromide followed by cyclization of the product in phosphoric acid to give the pyridothiazolopyrimidine V.  
IT 112342-67-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and intramol. cyclization of, pteridine derivative from)  
RN 112342-67-3 HCAPLUS  
CN Pyrazinecarboxylic acid, 3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-, phenylmethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 181 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1988:522078 HCAPLUS Full-text  
DOCUMENT NUMBER: 109:122078  
TITLE: Isothiazolopyrimidines - new group of anticancer agents. II  
AUTHOR(S): Machon, Zdzislaw; Mielczarek, Irena; Wieczorek, Jadwiga; Mordarski, Marian  
CORPORATE SOURCE: Dep. Org. Chem., Med. Acad., Wroclaw, 50-137, Pol.  
SOURCE: Archivum Immunologiae et Therapiae Experimentalis (1987), 35(5), 609-16  
CODEN: AITEAT; ISSN: 0004-069X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
ED Entered STN: 14 Oct 1988  
AB Treatment of 5-amino-3-methylisothiazolo[5,4-d]pyrimidine-(7H)-4,6-dione (I) with sugar isothiocyanates or Ph isocyanates or isothiocyanates and II (R = CSNHR1; R1 = sugar groups) (III) or treatment of I with bromo-glucose, -arabinose or ribose derivs. gave II (R = sugar group). III (R1 = arabinosyl and glucosyl) showed the greatest anticancer effect in mice bearing L-1210 leukemia or against sarcoma 180.  
IT 116383-05-2P 116383-06-3P 116383-09-6P  
116408-10-7P 116408-11-8P 116408-12-9P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

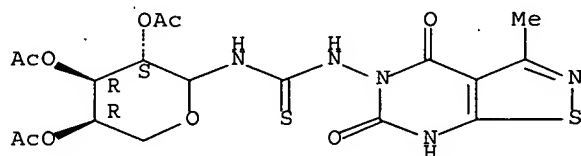
116383-05-2 HCAPLUS  
 CN Thiourea, N-(6,7-dihydro-3-methyl-4,6-dioxoisothiazolo[5,4-d]pyrimidin-5(4H)-yl)-N'-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



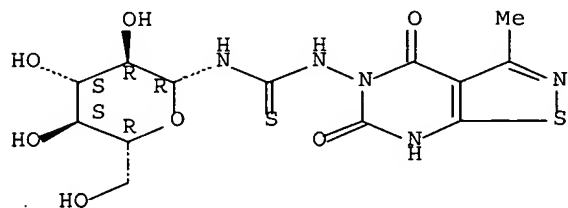
RN 116383-06-3 HCAPLUS  
 CN Thiourea, N-(6,7-dihydro-3-methyl-4,6-dioxoisothiazolo[5,4-d]pyrimidin-5(4H)-yl)-N'-(2,3,4-tri-O-acetyl-D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



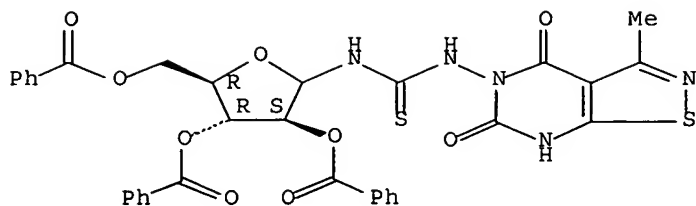
RN 116383-09-6 HCAPLUS  
 CN Thiourea, N-(6,7-dihydro-3-methyl-4,6-dioxoisothiazolo[5,4-d]pyrimidin-5(4H)-yl)-N'-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 116408-10-7 HCAPLUS  
 CN Thiourea, N-(6,7-dihydro-3-methyl-4,6-dioxoisothiazolo[5,4-d]pyrimidin-5(4H)-yl)-N'-(2,3,5-tri-O-benzoyl-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

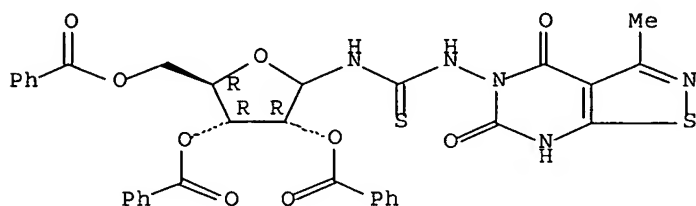
Absolute stereochemistry.



RN 116408-11-8 HCAPLUS

CN Thiourea, N-(6,7-dihydro-3-methyl-4,6-dioxoisothiazolo[5,4-d]pyrimidin-5(4H)-yl)-N'-(2,3,5-tri-O-benzoyl-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

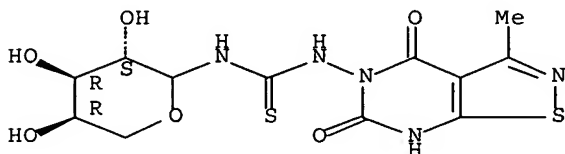
Absolute stereochemistry.



RN 116408-12-9 HCAPLUS

CN Thiourea, N-D-arabinopyranosyl-N'-(6,7-dihydro-3-methyl-4,6-dioxoisothiazolo[5,4-d]pyrimidin-5(4H)-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 116383-13-2P

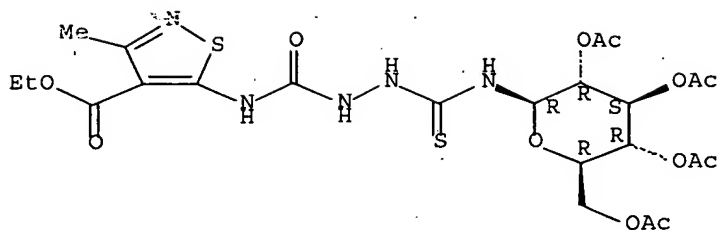
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 116383-13-2 HCAPLUS

CN 4-Isouthiazolecarboxylic acid, 3-methyl-5-[[[2-[[[(2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)amino]thioxomethyl]hydrazino]carbonyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.





L49 ANSWER 182 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:56014 HCAPLUS Full-text

DOCUMENT NUMBER: 108:56014

TITLE: Stereochemical studies. Part 89. Saturated heterocycles. Part 84. Preparation and nuclear magnetic resonance study of norbornane-norbornene-fused 2-phenylimino-1,3-oxazines and -thiazines

AUTHOR(S): Sohar, Pal; Stajer, Geza; Szabo, Angela; Fulop, Ferenc; Szunyog, Jozsef; Bernath, Gabor

CORPORATE SOURCE: Spectrosc. Dep., EGIS Pharm., Budapest, H-1475, Hung.

SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1987), (5), 599-605

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:56014

ED Entered STN: 20 Feb 1988

AB Reaction of di-exo- and di-endo-bicyclo[2.2.1]heptanes and -heptenes I (R = R1 = H; RR1 = bond, R2 = H, R3 = H, Me, CH2Ph) with PhNCS gave thioureas I [R = R1 = H; RR1 = bond; R2 = C(S)NPh, R3 = H, Me, CH2Ph; II]. Cyclization of II in acidic medium gave di-exo- and di-endo-thiazines III (X = S). Reaction of II with MeI gave isothiuronium salts, which, on base-catalyzed cyclization gave di-exo- and di-endo-oxazines III (X = O). 1H and 13C NMR of di-exo- and di-endo-III (R = R1 = H; RR1 = bond; R3 = H, Me, CH2Ph; X = O, S) were determined and discussed with respect to stereochem.

IT 112378-78-6P 112378-79-7P 112378-80-0P  
112378-81-1P 112378-82-2P 112378-83-3P  
112378-84-4P 112378-85-5P 112378-86-6P  
112378-87-7P 112378-88-8P 112378-89-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

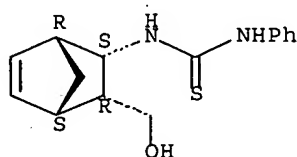
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, oxazine and thiazine derivs. from)

RN 112378-78-6 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-5-en-2-yl]-N'-phenyl-, (endo,endo)- (9CI) (CA INDEX NAME)

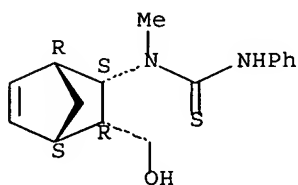
Relative stereochemistry.



RN 112378-79-7 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-5-en-2-yl]-N-methyl-N'-phenyl-, (endo,endo)- (9CI) (CA INDEX NAME)

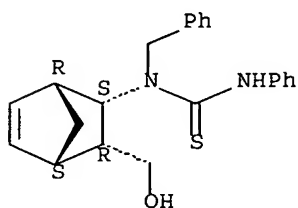
Relative stereochemistry.



RN 112378-80-0 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-5-en-2-yl]-N'-phenyl-N-(phenylmethyl)-, (endo,endo)- (9CI) (CA INDEX NAME)

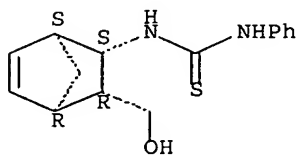
Relative stereochemistry.



RN 112378-81-1 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-5-en-2-yl]-N'-phenyl-, (exo,exo)- (9CI) (CA INDEX NAME)

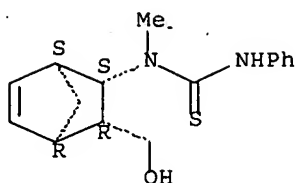
Relative stereochemistry.



RN 112378-82-2 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-5-en-2-yl]-N-methyl-N'-phenyl-, (exo,exo)- (9CI) (CA INDEX NAME)

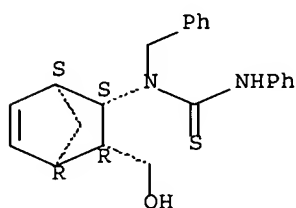
Relative stereochemistry.



RN 112378-83-3 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-5-en-2-yl]-N'-phenyl-N-(phenylmethyl)-, (exo,exo)- (9CI) (CA INDEX NAME)

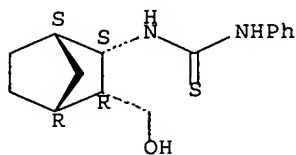
Relative stereochemistry.



RN 112378-84-4 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-2-yl]-N'-phenyl-, (endo,endo)- (9CI) (CA INDEX NAME)

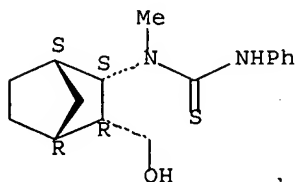
Relative stereochemistry.



RN 112378-85-5 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-2-yl]-N-methyl-N'-phenyl-, (endo,endo)- (9CI) (CA INDEX NAME)

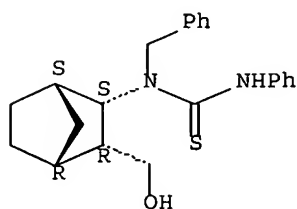
Relative stereochemistry.



RN 112378-86-6 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-2-yl]-N'-phenyl-N-(phenylmethyl)-, (endo,endo)-(9CI) (CA INDEX NAME)

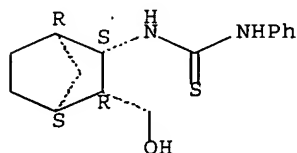
Relative stereochemistry.



RN 112378-87-7 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-2-yl]-N'-phenyl-, (exo,exo)-(9CI) (CA INDEX NAME)

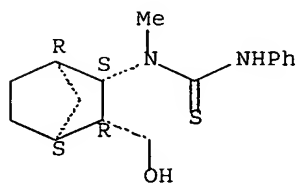
Relative stereochemistry.



RN 112378-88-8 HCAPLUS

CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-2-yl]-N-methyl-N'-phenyl-, (exo,exo)-(9CI) (CA INDEX NAME)

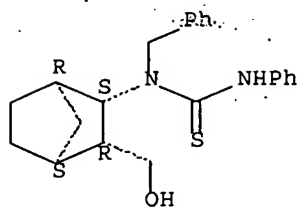
Relative stereochemistry.



RN 112378-89-9 HCAPLUS

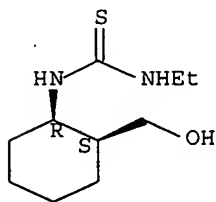
CN Thiourea, N-[3-(hydroxymethyl)bicyclo[2.2.1]hept-2-yl]-N'-phenyl-N-(phenylmethyl)-, (exo,exo)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



L49 ANSWER 183 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:37757 HCAPLUS Full-text  
 DOCUMENT NUMBER: 108:37757  
 TITLE: Stereochemical studies. 98. Saturated heterocycles.  
 100. Synthesis of stereoisomeric 2-ethylimino-3,1-  
 perhydrobenzoxazines and benzothiazines  
 AUTHOR(S): Bernath, Gabor; Fulop, Ferenc; Csirinyi, Gyorgy;  
 Szalma, Sandor  
 CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Med. Sch., Szeged, H-6701,  
 Hung.  
 SOURCE: Monatshefte fuer Chemie (1987), 118(4),  
 503-9  
 CODEN: MOCMB7; ISSN: 0026-9247  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 108:37757  
 ED Entered STN: 06 Feb 1988  
 AB Cis- And trans-2-hydroxymethyl-1-cyclohexylamines and their N-Me and N-benzyl  
 derivs. reacted with EtNCS to give the thiocarbamates I [R = H, Me, CH<sub>2</sub>Ph; R<sub>1</sub>  
 = C(:S)NH<sub>2</sub>Et]. Reaction of I with MeI followed by alkali treatment gave  
 perhydrobenzoxazines II (X = O; R = H, Me, CH<sub>2</sub>Ph), whereas cyclization of I by  
 HCl gave perhydrobenzothiazines II (X = S). NMR of II showed that the  
 predominant conformation of cis-II (X = O, S; R = H) is the N-inside form,  
 whereas cis-II (X = O, S; R = Me, CH<sub>2</sub>Ph) have the N-outside preferred  
 conformation.  
 IT 106690-59-9P 106690-60-2P 106690-61-3P  
106690-62-4P 106690-63-5P 106690-64-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, benzoxazine and benzothiazine  
 derivs. from)  
 RN 106690-59-9 HCAPLUS  
 CN Thiourea, N-ethyl-N'-[2-(hydroxymethyl)cyclohexyl]-, cis- (9CI) (CA INDEX  
 NAME)

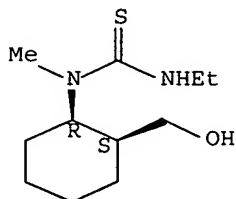
Relative stereochemistry.



RN 106690-60-2 HCAPLUS

CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-methyl-, cis- (9CI)  
(CA INDEX NAME)

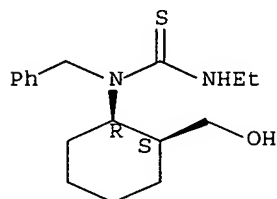
Relative stereochemistry.



RN 106690-61-3 HCAPLUS

CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

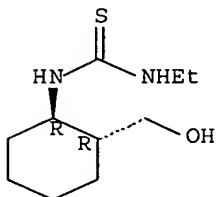
Relative stereochemistry.



RN 106690-62-4 HCAPLUS

CN Thiourea, N-ethyl-N'-[2-(hydroxymethyl)cyclohexyl]-, trans- (9CI) (CA INDEX NAME)

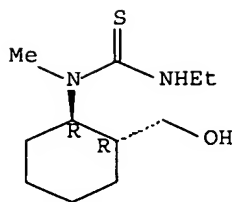
Relative stereochemistry.



RN 106690-63-5 HCAPLUS

CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-methyl-, trans- (9CI)  
(CA INDEX NAME)

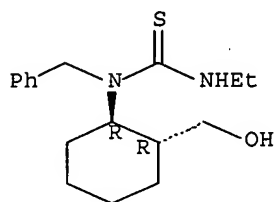
Relative stereochemistry.



RN 106690-64-6 HCAPLUS

CN Thiourea, N'-ethyl-N-[2-(hydroxymethyl)cyclohexyl]-N-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L49 ANSWER 184 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:75320 HCAPLUS Full-text

DOCUMENT NUMBER: 108:75320

TITLE: Stereochemical studies. Part 102/106. Saturated heterocycles; preparation of saturated methylene-bridged 2-arylimino-1,3-benzoxazines

AUTHOR(S): Stajer, G.; Szabo, A. E.; Bernath, G.; Sohar, P.

CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Med. Sch., Szeged, Hung.

SOURCE: Pharmazie (1987), 42(7), 448-9

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:75320

ED Entered STN: 05 Mar 1988

AB Addition of aryl isothiocyanates, RNCS (R = Ph, 4-MeC6H4, 4-ClC6H4), to aminomethylbicyclo[2.2.1]heptanol I (R1 = H) gave thioureas I (R1 = CSNHR) (II) in 95-97% yields. Methylation of II with MeI, followed by cyclization with methanolic KOH, gave tricyclic aryliminoxazines III in 83-91% yields. Attempted acid-catalyzed ring closure of II to the analogous thiazines was unsuccessful.

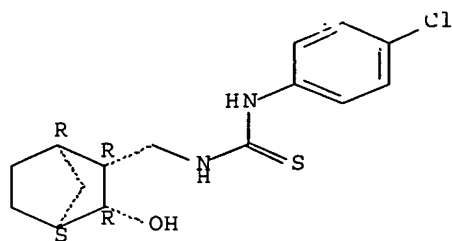
IT 112798-26-2P 112798-27-3P 112798-28-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, methylation, and cyclization of)

RN 112798-26-2 HCAPLUS

CN Thiourea, N-(4-chlorophenyl)-N'-[(3-hydroxybicyclo[2.2.1]hept-2-yl)methyl]-, (exo,exo)- (9CI) (CA INDEX NAME)

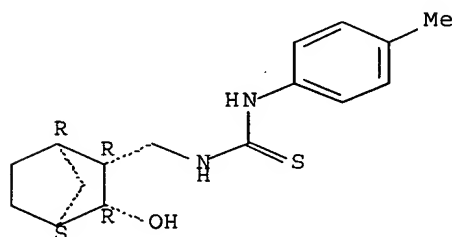
Relative stereochemistry.



RN 112798-27-3 HCAPLUS

CN Thiourea, N-[(3-hydroxybicyclo[2.2.1]hept-2-yl)methyl]-N'-(4-methylphenyl)-, (exo,exo)- (9CI) (CA INDEX NAME)

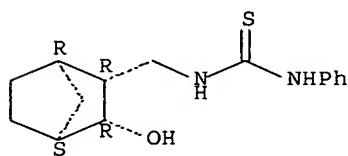
Relative stereochemistry.



RN 112798-28-4 HCAPLUS

CN Thiourea, N-[(3-hydroxybicyclo[2.2.1]hept-2-yl)methyl]-N'-phenyl-, (exo,exo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L49 ANSWER 185 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:196867 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 106:196867

TITLE: Polymers containing the [2H]-1,2,4-triazoline-3-thione ring

AUTHOR(S): Katritzky, Alan R.; Cato, Stephen J.; Heilmann, Steven M.; Rasmussen, Jerald K.; Krepski, Larry R.

CORPORATE SOURCE: Chem. Dep., Univ. Florida, Gainesville, FL, 32611, USA

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(1), 311-26

CODEN: JPACEC; ISSN: 0887-624X

DOCUMENT TYPE: Journal



LANGUAGE: English

ED Entered STN: 13 Jun 1987

AB High-mol.-weight polymers containing [2H]-1,2,4-triazoline-3-thione rings are prepared by the condensations of diisothiocyanates with bis(acid hydrazides) to give intermediate polymeric acylthiosemicarbazides that are ring-closed by refluxing in 1M aqueous sodium carbonate. Thermal cyclization of the polymeric acylthiosemicarbazides leads to crosslinked insol. products. The acylation of bis(thiosemicarbazides) with bis(acid chlorides) produces polymers of a similar structure but lower mol. weight

IT 108144-99-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

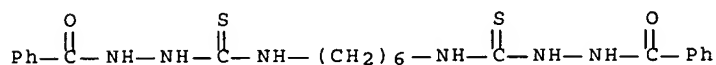
RN 108144-99-6 HCAPLUS

CN Benzoic acid, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide, dimer (9CI) (CA INDEX NAME)

CM 1

CRN 56473-36-0

CMF C22 H28 N6 O2 S2



IT 108144-98-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

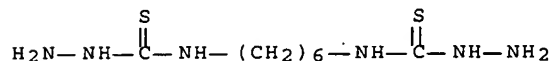
RN 108144-98-5 HCAPLUS

CN 1,4-Benzenedicarbonyl dichloride, polymer with N,N'-1,6-hexanediylbis[hydrazinecarbothioamide] (9CI) (CA INDEX NAME)

CM 1

CRN 56473-15-5

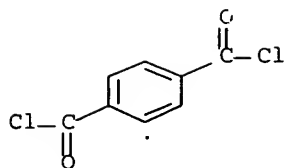
CMF C8 H20 N6 S2



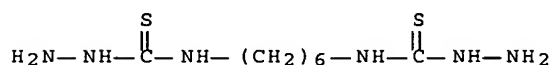
CM 2

CRN 100-20-9

CMF C8 H4 Cl2 O2



IT 56473-15-5, 1,6-Hexanebis(thiosemicarbazide)  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with Et benzimidoate hydrochloride)  
 RN 56473-15-5 HCAPLUS  
 CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis- (9CI) (CA INDEX NAME)



L49 ANSWER 186 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:38249 HCAPLUS Full-text

DOCUMENT NUMBER: 108:38249

TITLE: Thiourea derivatives of carbohydrates. Part X.  
 Phenacylthiourea and N-thiazolyl derivatives of  
 2-amino-2-deoxy-D-glucose

AUTHOR(S): Fuentes Mota, J.; Ortiz Mellet, M. C.; Garcia  
 Fernandez, J. M.; Pradera Adrian, M. A.; Gomez  
 Monterrey, I. M.

CORPORATE SOURCE: Fac. Quim., Univ. Sevilla, Sevilla, Spain

SOURCE: Carbohydrate Research (1987), 162(2), 307-15

CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:38249

ED Entered STN: 06 Feb 1988

AB (Phenacylthioureido)deoxyglucopyranoses I (R1 = H, R2 = OAc, R3 = H, Me; R1 =  
 OAc, R2 = H, R3 = H, Me) were prepared in 60-95% yields by treating 1,3,4,6-  
 tetra-O-acetyl-2-deoxy-2-isothiocyanato - $\alpha(\beta)$ -D-glucopyranoses with  
 phenacylamines in Me<sub>2</sub>CO. Cyclodehydration of I by Ac<sub>2</sub>O-H<sub>3</sub>PO<sub>4</sub> gave 35-90%  
 thiazolyl derivs. II. NMR data show that II have 4C1(D) conformation  
 preponderant in CHCl<sub>3</sub> solution

IT 112290-65-0P 112290-66-1P 112290-67-2P

112290-68-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

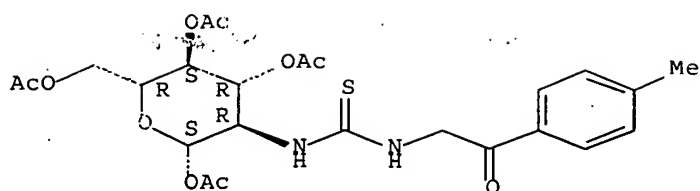
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 112290-65-0 HCAPLUS

CN  $\beta$ -D-Glucopyranose, 2-deoxy-2-[[[2-(4-methylphenyl)-2-  
 oxoethyl]amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX  
 NAME)

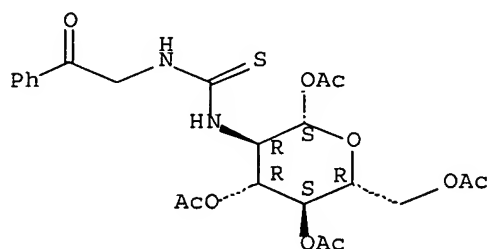
Absolute stereochemistry.



RN 112290-66-1 HCAPLUS

CN β-D-Glucopyranose, 2-deoxy-2-[[[(2-oxo-2-phenylethyl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

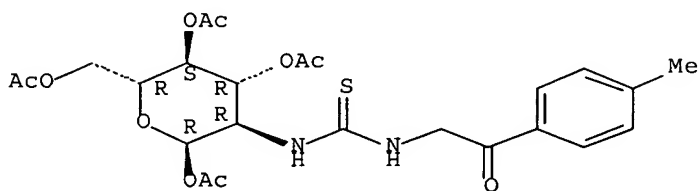
Absolute stereochemistry.



RN 112290-67-2 HCAPLUS

CN α-D-Glucopyranose, 2-deoxy-2-[[[2-(4-methylphenyl)-2-oxoethyl]amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

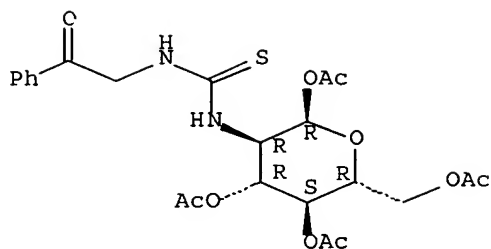
Absolute stereochemistry.



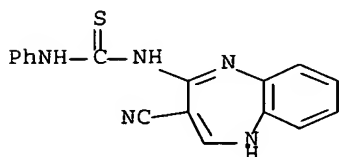
RN 112290-68-3 HCAPLUS

CN α-D-Glucopyranose, 2-deoxy-2-[[[(2-oxo-2-phenylethyl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 187 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:496689 HCAPLUS Full-text  
 DOCUMENT NUMBER: 107:96689  
 TITLE: A new synthesis of pyrimido[4,5-b][1,5]benzodiazepin-2-one and -2-thione derivatives  
 AUTHOR(S): Takagi, Kaname; Morita, Hikari; Aotsuka, Tomoji; Okamoto, Yoshihisa  
 CORPORATE SOURCE: Cent. Res. Lab., Zeria Pharm. Co., Konan, 360-01, Japan  
 SOURCE: Heterocycles (1987), 26(1), 175-79  
 CODEN: HTCYAM; ISSN: 0385-5414  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 107:96689  
 ED Entered STN: 19 Sep 1987  
 AB The cyclization of ureidobenzodiazepinecarbonitriles I (Z = O,S; R1 = alkyl, Ph) gave title compds II. I were prepared from an aminobenzodiazepine derivative and the resp. R1NCZ.  
 IT 109856-09-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 109856-09-9 HCAPLUS  
 CN Thiourea, N-(3-cyano-1H-1,5-benzodiazepin-4-yl)-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 188 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:637230 HCAPLUS Full-text  
 DOCUMENT NUMBER: 107:237230  
 TITLE: Mechanism of base-catalyzed cyclization of ethyl N-(substituted aminocarbonyl)glycinates  
 AUTHOR(S): Mindl, Jaromir; Sterba, Vojteslav  
 CORPORATE SOURCE: Dep. Org. Chem., Inst. Chem. Technol., Pardubice, 532 10, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications (1987), 52(1), 156-61  
 CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:237230

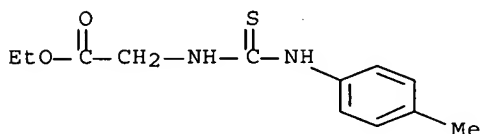
ED Entered STN: 25 Dec 1987

AB The cyclization rate consts. have been measured for substituted N-(aminothiocarbonyl)glycinates  $\text{RNHC(Z)NHCH}_2\text{CO}_2\text{Et}$  ( $\text{R}$  = alkyl, aryl;  $\text{Z}$  = O, S). Logarithms of these consts. increase with decreasing basicity of the amines down to the value of  $\text{pK}_a(\text{RNH}_2) = 5.5$ . The rate-limiting step of the reaction is formation of the tetrahedral intermediate. With Et N-(phenylaminocarbonyl)glycinates [whose  $\text{pK}_a(\text{RNH}_2)$  values are higher], this dependence decreases slightly, and the acid-catalyzed splitting off of ethoxy group from the cyclic intermediate becomes rate limiting. The cyclization rate of a series of Et N-(phenylaminothiocarbonyl)glycinates is practically independent of the  $\text{pK}_a(\text{RNH}_2)$  values; the change in the rate-limiting step would take place at pH about 9.

IT 111651-82-2  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
 (cyclization of, kinetics of)

RN 111651-82-2 HCAPLUS

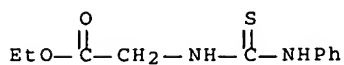
CN Glycine, N-[[4-methylphenyl]amino]thioxomethyl-, ethyl ester (9CI) (CA INDEX NAME)



IT 104892-41-3P 111633-99-9P 111634-00-5P  
111651-81-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, kinetics of)

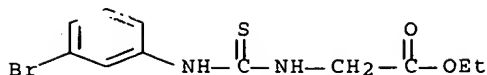
RN 104892-41-3 HCAPLUS

CN Glycine, N-[(phenylamino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



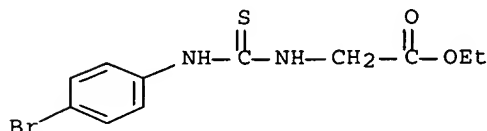
RN 111633-99-9 HCAPLUS

CN Glycine, N-[[3-bromophenyl]amino]thioxomethyl-, ethyl ester (9CI) (CA INDEX NAME)



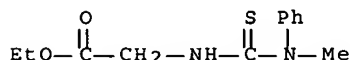
RN 111634-00-5 HCAPLUS

CN Glycine, N-[[4-bromophenyl]amino]thioxomethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 111651-81-1 HCAPLUS

CN Glycine, N-[(methylphenylamino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 189 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:38254 HCAPLUS Full-text

DOCUMENT NUMBER: 108:38254

TITLE: Thiourea derivatives of carbohydrates. Part IX.  
Glycosylaminothiazole derivatives of D-glucosamine and D-galactose

AUTHOR(S): Fuentes Mota, J.; Pradera Adrian, Maria A.; Ortiz Mellet, Maria C.; Garcia Fernandez, J. M.

CORPORATE SOURCE: Fac. Quim., Univ. Sevilla, Sevilla, Spain

SOURCE: Anales de Quimica, Serie C: Quimica Organica y Bioquimica (1987), 83(1), 124-7  
CODEN: AQSBD6; ISSN: 0211-1357

DOCUMENT TYPE: Journal

LANGUAGE: Spanish

OTHER SOURCE(S): CASREACT 108:38254

ED Entered STN: 06 Feb 1988

AB The synthesis of N-(p-methylphenacyl)-N'-(2,3,4,6-tetra-O-benzoyl-β-D-galactopyranosyl)thiourea by reaction of 2,3,4,6-tetra-O-benzoyl-β-D-galactopyranosyl isothiocyanate with p-methylphenylacetylamine is reported. The cyclodehydration of N-phenacyl-N'-(2,3,4,6-tetra-O-benzoyl-β-D-galactopyranosyl)thioureas yields 5-aryl-2-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-β-D-glucopyranosylamino)thiazoles or 2-(2,3,4,6-tetra-O-benzoyl-β-D-galactopyranosylamino)-5-(p-tolyl)thiazole (I). The reaction of the thiazole II with sodium methoxide afforded 2-(2-acetamido-2-deoxy-β-D-

glucopyranosylamino)-5-(p-tolyl)thiazole. The structures were confirmed by UV, copvance  
IR, and <sup>1</sup>H NMR.

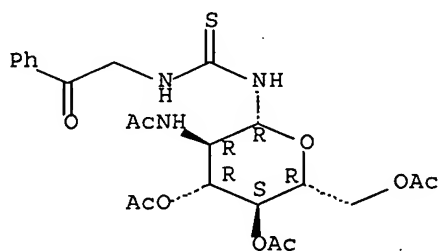
IT 93801-30-0 93801-31-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of, thiazole derivative by)

RN 93801-30-0 HCAPLUS

CN Thiourea, N-(2-oxo-2-phenylethyl)-N'-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

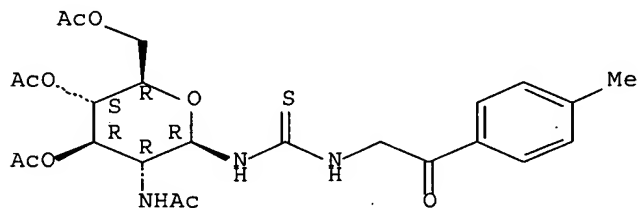
Absolute stereochemistry.



RN 93801-31-1 HCAPLUS

CN Thiourea, N-[2-(4-methylphenyl)-2-oxoethyl]-N'-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



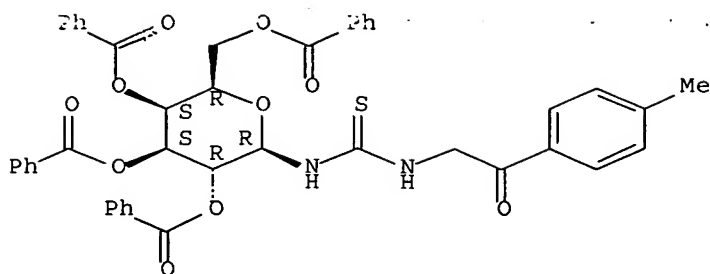
IT 112157-04-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, proton NMR, and cyclization of)

RN 112157-04-7 HCAPLUS

CN Thiourea, N-[2-(4-methylphenyl)-2-oxoethyl]-N'-(2,3,4,6-tetra-O-benzoyl-β-D-galactopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 190 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:515537 HCAPLUS Full-text

DOCUMENT NUMBER: 107:115537

TITLE: Addition-cyclization reactions of ethyl isothiocyanatoacetate with carboxylic acid hydrazides

AUTHOR(S): Veverka, Miroslav; Marchalin, Miroslav

CORPORATE SOURCE: Drug Res. Inst., Bratislava, 811 04, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications (1987), 52(1), 113-19

CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:115537

ED Entered STN: 05 Oct 1987

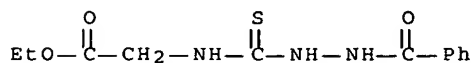
AB Et (3-substituted 5-thioxo-1,2,4-triazolin-4-yl)acetates I (R = e.g. H, Me, Ph, PhCH<sub>2</sub>, 2-thienyl) were prepared by addition-cyclization reaction of Et isothiocyanatoacetate with carboxylic acid hydrazides in the presence of NaOEt. Thermal cyclization of the adduct AcNHNHCSNHCH<sub>2</sub>CO<sub>2</sub>Et in DMF afforded 1-acetamido-2-thiohydantoin II. The effect of substituents on the cyclization course and the thione-thiol tautomerism are discussed.

IT 91374-03-7P 110167-50-5P 110167-51-6P  
110167-52-7P 110167-53-8P 110167-54-9P  
110167-55-0P 110167-56-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 91374-03-7 HCAPLUS

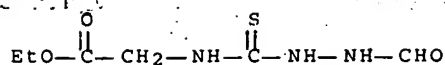
CN Benzoic acid, 2-[[ (2-ethoxy-2-oxoethyl) amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 110167-50-5 HCAPLUS

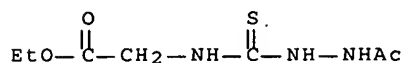
CN Glycine, N-[(2-formylhydrazino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)





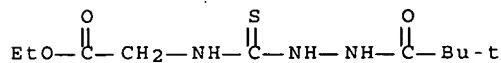
RN 110167-51-6 HCAPLUS

CN Glycine, N-[(2-acetylhydrazino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



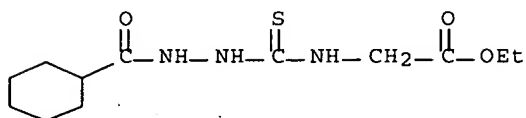
RN 110167-52-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



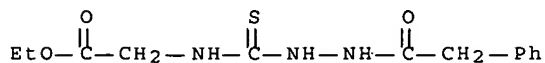
RN 110167-53-8 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



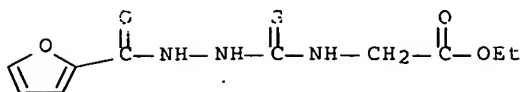
RN 110167-54-9 HCAPLUS

CN Benzeneacetic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

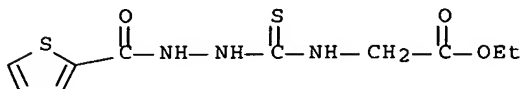


RN 110167-55-0 HCAPLUS

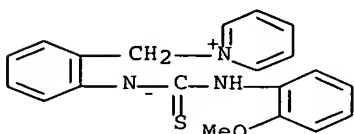
CN 2-Furancarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



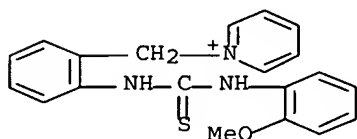
RN 110167-56-1 HCAPLUS  
 CN 2-Thiophenecarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 191 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:477729 HCAPLUS Full-text  
 DOCUMENT NUMBER: 107:77729  
 TITLE: 2-Isothiocyantobenzylpyridinium bromide -  
 an intermediate for the synthesis of  
 2-arylamino-4H-benzo[d][1,3]thiazines  
 AUTHOR(S): Gonda, Jozef; Kristian, Pavol  
 CORPORATE SOURCE: Fac. Nat. Sci., P. J. Safarik Univ., Kosice, 041 67,  
 Czech.  
 SOURCE: Collection of Czechoslovak Chemical Communications ( 1986), 51(12), 2810-16  
 CODEN: CCCCAK; ISSN: 0366-547X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 107:77729  
 ED Entered STN: 05 Sep 1987  
 AB 2-Bromomethylphenyl isothiocyante reacts with pyridine to yield 2-  
isothiocyantobenzylpyridinium bromide, which on addition with RNH<sub>2</sub> (R = Ph,  
 2-MeC<sub>6</sub>H<sub>4</sub>, 4-MeC<sub>6</sub>H<sub>4</sub>, 2-MeOC<sub>6</sub>H<sub>4</sub>, 3-MeOC<sub>6</sub>H<sub>4</sub>, 4-MeOC<sub>6</sub>H<sub>4</sub>, 3-ClC<sub>6</sub>H<sub>4</sub>, 4-BrC<sub>6</sub>H<sub>4</sub>, 1-  
 naphthyl, 2-naphthyl) afforded aryl benzylpyridiniumthiourea bromides I.  
 Deprotonation of I with aqueous NaOH gave N-aryl-N'-(2-benzylpyridinium)  
 thioureates, which freed pyridine upon heating to give arylaminobenzothiazines  
 II.  
 IT 109768-59-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 109768-59-4 HCAPLUS  
 CN Pyridinium, 1-[[2-[[[(2-methoxyphenyl)amino]thioxomethyl]amino]phenyl]meth  
 yl]-, inner salt (9CI) (CA INDEX NAME)



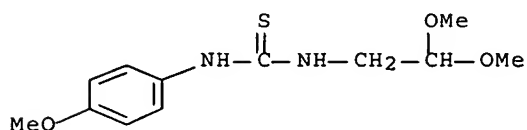
IT 109768-49-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and deprotonation of)  
 RN 109768-49-2 HCAPLUS  
 CN Pyridinium, 1-[[2-[[[(2-methoxyphenyl)amino]thioxomethyl]amino]phenyl]meth  
 yl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

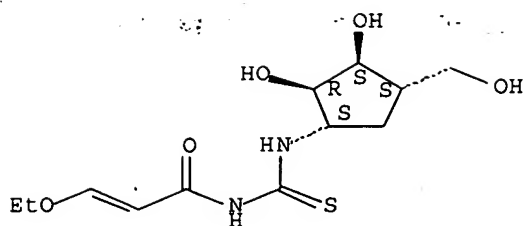
L49 ANSWER 192 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:18440 HCAPLUS Full-text  
 DOCUMENT NUMBER: 106:18440  
 TITLE: Multisubstrate inhibitors of dopamine  
 $\beta$ -hydroxylase. 1. Some 1-phenyl and  
 1-phenyl-bridged derivatives of imidazole-2-thione  
 AUTHOR(S): Kruse, Lawrence I.; Kaiser, Carl; DeWolf, Walter E.,  
 Jr.; Frazee, James S.; Garvey, Eleanor; Hilbert,  
 Eileen L.; Faulkner, Wayne A.; Flaim, Kathryn E.;  
 Sawyer, John L.; Berkowitz, Barry A.  
 CORPORATE SOURCE: Res. Dev. Div., Smith Kline and French Lab.,  
 Philadelphia, PA, 19101, USA  
 SOURCE: Journal of Medicinal Chemistry (1986),  
 29(12), 2465-72  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 106:18440  
 ED Entered STN: 24 Jan 1987  
 AB The synthesis and characterization of some 1-(phenylalkyl)imidazole-2- thiones  
 I [R = H, MeO, HO, X = (CH<sub>2</sub>)<sub>n</sub> (n = 0-5), OCH<sub>2</sub>CH<sub>2</sub>, SCH<sub>2</sub>CH<sub>2</sub>, CH(CH<sub>2</sub>NH<sub>2</sub>), etc.]  
 as a novel class of "multisubstrate" inhibitors of dopamine  $\beta$ -hydroxylase  
 (DBH) are described. Thus, p-MeOC<sub>6</sub>H<sub>4</sub>NCS was treated with Me<sub>2</sub>NCH(OMe)<sub>2</sub> to give  
 p-MeOC<sub>6</sub>H<sub>4</sub>NHCSNHCH<sub>2</sub>CH(OMe)<sub>2</sub>, which was cyclized by H<sub>2</sub>SO<sub>4</sub> to give I (R = MeO, X  
 = bond). I appear to bind both the phenethylamine binding site and the active  
 site copper atom(s) in DBH. Different bridging chain lengths between the Ph  
 ring (dopamine mimic) and the imidazole-2-thione group (oxygen mimic) in I  
 define the optimum distance for inhibitory potency and the likely intersite  
 distance in the DSH active site. Addnl. bridging analogs were prepared to  
 determine the active site bulk tolerance and the effects of heteroatom  
 replacement.  
 IT 95333-84-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and intramol. cyclization of)

RN 95333-84-9 HCAPLUS  
 CN Thiourea, N-(2,2-dimethoxyethyl)-N'-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 193 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:50587 HCAPLUS Full-text  
 DOCUMENT NUMBER: 106:50587  
 TITLE: Synthesis of cyclopentane analogs of (2'- and 3'-deoxy-erythro-pentofuranosyl- and ribofuranosyl)-2-thiouracil nucleosides  
 AUTHOR(S): Hronowski, Lucjan J. J.; Szarek, Walter A.  
 CORPORATE SOURCE: Dep. Chem., Queen's Univ., Kingston, ON, K7L 3N6, Can.  
 SOURCE: Canadian Journal of Chemistry (1986), 64(8), 1620-9  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 106:50587  
 ED Entered STN: 21 Feb 1987  
 AB Three new carbocyclic analogs of nucleosides having the 2-thiouracil base (I; R = OH, R1 = H; R = H, R1 = OH; R = R1 = OH) were prepared. The nucleosides were prepared by coupling the appropriate hydroxy derivs. of cis-3-aminocyclopentanemethanol with 3-ethoxypropenoyl isothiocyanate followed by cyclization in 15 N aqueous ammonia to give the 2-thiouracil nucleosides. In addition a modified and shortened synthetic route is described for the synthesis of (+)- (1 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )-4-amino-2,3-dihydroxycyclopentanemethanol. The 1H NMR spectra at 200 MHz of all the synthetic intermediates, the 2-thiouracil nucleosides, and of the corresponding carbocyclic analogs of uracil nucleosides are discussed. Each nucleoside has a characteristically unique 1H NMR spectrum and in general the protons in the sulfur-containing compds. resonate at lower fields than those in the corresponding oxygen-containing compds. The magnitude of this downfield shift is inversely related to the number of bonds separating a particular proton from the sulfur atom.  
 IT 105967-09-7P 106034-00-8P 106034-01-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, nucleoside analog from)  
 RN 105967-09-7 HCAPLUS  
 CN 2-Propenamide, N-[[[2,3-dihydroxy-4-(hydroxymethyl)cyclopentyl]amino]thioxomethyl]-3-ethoxy-, (1 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,4 $\alpha$ )- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry unknown.

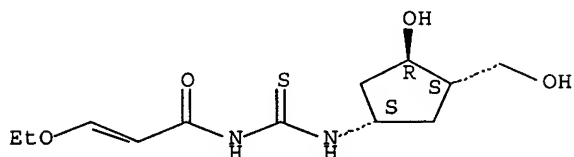


RN 106034-00-8 HCAPLUS

CN 2-Propenamide, 3-ethoxy-N-[[[3-hydroxy-4-(hydroxymethyl)cyclopentyl]amino]thioxomethyl]-, (1 $\alpha$ ,3 $\beta$ ,4 $\alpha$ )- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry unknown.

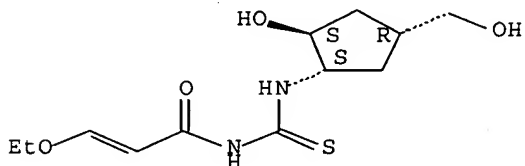


RN 106034-01-9 HCAPLUS

CN 2-Propenamide, 3-ethoxy-N-[[[2-hydroxy-4-(hydroxymethyl)cyclopentyl]amino]thioxomethyl]-, (1 $\alpha$ ,2 $\beta$ ,4 $\alpha$ )- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry unknown.



L49 ANSWER 194 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:458990 HCAPLUS Full-text

DOCUMENT NUMBER: 107:58990

TITLE: Synthesis of 2/9-substituted indophenazine-6-acetic acid ( $\alpha$ -aryl/methylbenzylidene)hydrazides, 4-aryl-1-[(6-indophenazinyl)acetyl]-3-thiosemicarbazides, and 6-[(4-aryl-5-mercapto-4H-1,2,4-triazol-3-yl)methyl]indophenazines as central active and antiinflammatory agents

AUTHOR(S): Mohan, Rajiv Ravindra; Agarwal, Rajesh; Misra, V. S.

CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226 007, India

SOURCE: Indian Journal of Chemistry, Section B: Organic

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 107:58990

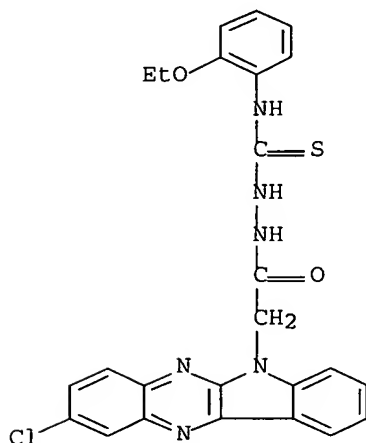
ED Entered STN: 21 Aug 1987

AB The title hydrazides I (R = H; R1 = Cl; R2 = N:CHR3, N:CMeR3; R3 = e.g. Ph, 4-MeC6H4, 4-MeOC6H4), thiosemicarbazides I (R = H, Br; R1 = H, Cl; R2 = NHCSNHR3) and their cyclization products II were prepared and found to be nontoxic and central nervous system active. Most of them showed significant protection against carrageenin-induced inflammation.

IT 109322-14-7P 109322-19-2PRL: RCT (Reactant); SPN (Synthetic preparation); PREP(Preparation); RACT (Reactant or reagent)(preparation, cyclization, and antiinflammatory activity of)

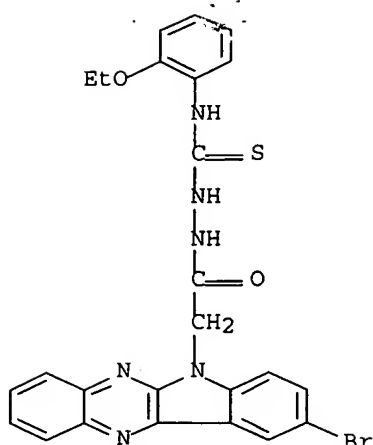
RN 109322-14-7 HCAPLUS

CN 6H-Indolo[2,3-b]quinoxaline-6-acetic acid, 2-chloro-, 2-[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 109322-19-2 HCAPLUS

CN 6H-Indolo[2,3-b]quinoxaline-6-acetic acid, 9-bromo-, 2-[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 195 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:122588 HCAPLUS Full-text

DOCUMENT NUMBER: 104:122588

TITLE: Potentiation of 2'-deoxyguanosine cytotoxicity by a novel inhibitor of purine nucleoside phosphorylase, 8-amino-9-benzylguanine

AUTHOR(S): Shewach, Donna S.; Chern, Ji Wang; Pillote, Katherine E.; Townsend, Leroy B.; Daddona, Peter E.

CORPORATE SOURCE: Dep. Intern. Med., Univ. Michigan, Ann Arbor, MI, 48109, USA

SOURCE: Cancer Research (1986), 46(2), 519-23

CODEN: CNREA8; ISSN: 0008-5472

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 19 Apr 1986

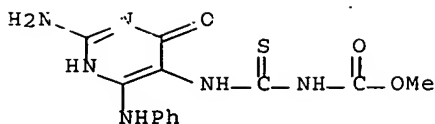
AB A series of 9-substituted analogs of 8-aminoguanine, a known inhibitor of human purine nucleoside phosphorylase (PNP) [9030-21-1] activity, was synthesized. The ability of these agents to inhibit PNP was investigated. All compds. were found to act as competitive (with inosine) inhibitors of PNP, with  $K_i$  values ranging from 0.2 to 290  $\mu$ M. The most potent of these analogs, 8-amino-9-benzylguanine (I) [100890-94-6], exhibited a  $K_i$  value that was 4-fold lower than that determined for the parent base, 8-aminoguanine [28128-41-8]. As a metabolically stable compound in human blood, 8-amino-9-benzylguanine was more effective than 8-aminoguanine at potentiating in culture. 8-Amino-9-benzylguanine is the most potent base or nucleoside inhibitor of human PNP reported to date, and it is a promising lead compound in the development of more effective PNP inhibitors.

IT 100890-95-7P 100890-99-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and ring closure of)

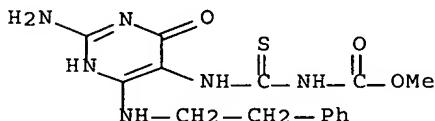
RN 100890-95-7 HCAPLUS

CN Carbamic acid, [[[2-amino-1,4-dihydro-4-oxo-6-(phenylamino)-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 100890-99-1 HCAPLUS

CN Carbamic acid, [[[2-amino-1,4-dihydro-4-oxo-6-[(2-phenylethyl)amino]-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 196 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:626467 HCAPLUS Full-text

DOCUMENT NUMBER: 105:226467

TITLE: Synthesis of stereoisomeric condensed-skeleton  
2-imino-substituted 1,3-oxazines

AUTHOR(S): Fulop, Ferenc; Bernath, Gabor; Sohar, Pal

CORPORATE SOURCE: Gyogyszereszi Veg. Int., SZOTE, Szeged, 6720, Hung.

SOURCE: Magyar Kemiai Folyoirat (1986), 92(3),  
123-30

CODEN: MGKFA3; ISSN: 0025-0155

DOCUMENT TYPE: Journal

LANGUAGE: Hungarian

OTHER SOURCE(S): CASREACT 105:226467

ED Entered STN: 26 Dec 1986

AB The ureas cis- and trans-I (X = O, S; R = H, Me; n = 1, 2) were prepared by treating the cis- and trans-aminomethylcycloalkanols with PhNCX. Treatment of I (X = S) with MeI gave oxazines II, trans-I giving trans-II. Treatment of cis-I (X = O) with SOCl<sub>2</sub> gave the elimination products III, whereas trans-I (X = O) gave cis-II. The conformations of II are discussed.

IT 105545-19-5P 105545-20-8P 105545-21-9P

105545-22-0P 105545-23-1P 105545-24-2P

105545-25-3P 105545-26-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

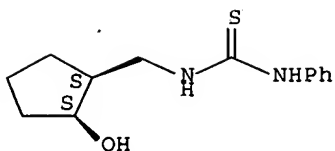
(preparation and cyclization of, with Me iodide)

RN 105545-19-5 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N'-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

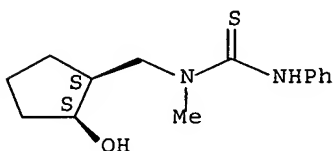




RN 105545-20-8 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N-methyl-N'-phenyl-, cis- (9CI)  
(CA INDEX NAME)

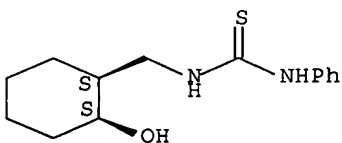
Relative stereochemistry.



RN 105545-21-9 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N'-phenyl-, cis- (9CI) (CA  
INDEX NAME)

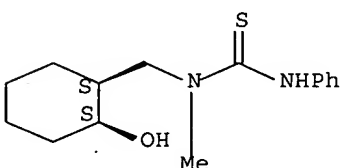
Relative stereochemistry.



RN 105545-22-0 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N-methyl-N'-phenyl-, cis- (9CI)  
(CA INDEX NAME)

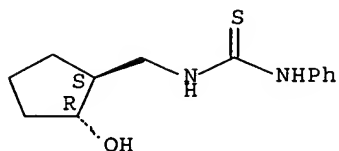
Relative stereochemistry.



RN 105545-23-1 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N'-phenyl-, trans- (9CI) (CA  
INDEX NAME)

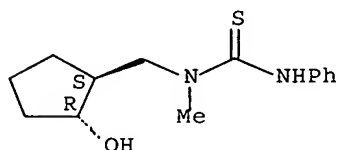
Relative stereochemistry.



RN 105545-24-2 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N-methyl-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

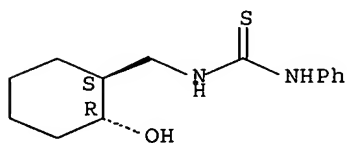
Relative stereochemistry.



RN 105545-25-3 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

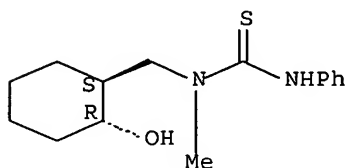
Relative stereochemistry.



RN 105545-26-4 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N-methyl-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L43 ANSWER 197 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:84462 HCAPLUS Full-text

DOCUMENT NUMBER: 106:84462

TITLE: Synthesis of N-[4-oxo-[1]-benzopyrano[3,4-d]thiazol-2-yl]-p-toluimides

AUTHOR(S): Prasad, D. Vijaya; Darbarwar, Malleshwar

CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India

SOURCE: Sulfur Letters (1986), 4(3), 87-92

CODEN: SULED2; ISSN: 0278-6117

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:84462

ED Entered STN: 21 Mar 1987

AB Thioureidocoumarin I (R = R1 = H, Br; R2 = Ph, 4-MeC6H4), formed by treating 3-aminocoumarin with R2CONCS, on cyclization with PCl5-POCl3 gave oxobenzopyranothiazolyl imides II.

IT 106727-27-9P 106727-28-0P 106727-29-1P

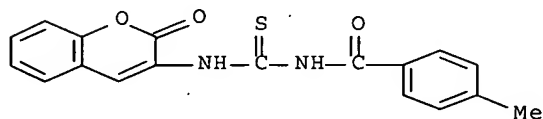
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, oxobenzopyranothiazolyl imide from)

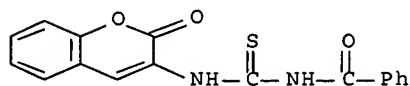
RN 106727-27-9 HCAPLUS

CN Benzamide, 4-methyl-N-[[ (2-oxo-2H-1-benzopyran-3-yl) amino]thioxomethyl] - (9CI) (CA INDEX NAME)



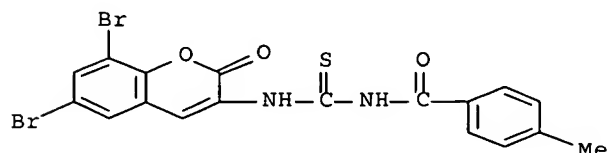
RN 106727-28-0 HCAPLUS

CN Benzamide, N-[[ (2-oxo-2H-1-benzopyran-3-yl) amino]thioxomethyl] - (9CI) (CA INDEX NAME)



RN 106727-29-1 HCAPLUS

CN Benzamide, N-[[ (6,8-dibromo-2-oxo-2H-1-benzopyran-3-yl) amino]thioxomethyl] - 4-methyl- (9CI) (CA INDEX NAME)



L49 ANSWER 198 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:497021 HCAPLUS Full-text

DOCUMENT NUMBER: 107:97021

TITLE: Thiourea derivatives of carbohydrates. Part VI.  
Synthesis of 1,3,4,6-tetra-O-acetyl-2-[3-alkyl(aryl)thioureido]-2-deoxy- $\alpha$ -D-glucopyranoses and their transformation into 2-alkyl(aryl)amino-(1,2-dideoxy- $\alpha$ -D-glucopyrano)[2,1-d]-2-thiazolines

AUTHOR(S): Avalos Gonzalez, Martin; Fuentes Mota, Jose; Gomez Monterrey, Isabel Maria; Jimenez Requejo, Jose L.; Palacios Albarran, Juan C.; Ortiz Mellet, Maria C.

CORPORATE SOURCE: Fac. Sci., Univ. Extremadura, Badajoz, Spain

SOURCE: Carbohydrate Research (1986), 154, 49-62

CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:97021

ED Entered STN: 19 Sep 1987

AB 1,3,4,6-Tetra-O-acetyl-2-deoxy-2-isothiocyanato - $\alpha$ -D-glucopyranose, produced from 1,3,4,6-tetra-O-acetyl-2-amino-2-deoxy- $\alpha$ -D-glucopyranose hydrochloride, thiophosgene, and  $\text{CaCO}_3$ , was condensed with alkyl- and arylamines in either to afford the crystalline 2-thioureido-2-deoxy- $\alpha$ -D-glucopyranoses I (R =  $\text{PhCH}_2\text{NH}$ ,  $\text{Et}_2\text{N}$ , 4-MeOC $_6\text{H}_4\text{NH}$ , 4-BrC $_6\text{H}_4\text{NH}$ , cyclohexylamino, 1-naphthylamino). I (R =  $\text{PhCH}_2\text{NH}$ , cyclohexylamino, 4-MeOC $_6\text{H}_4\text{NH}$ ) and  $\beta$ -anomers of the 1st two were converted in high yield into aminodideoxy- $\alpha$ -D-glucopyrano[2,1-d]-2-thiazolines by HBr promoted cyclization. Conformational studies of II were made by  $^1\text{H}$ -NMR spectroscopy.

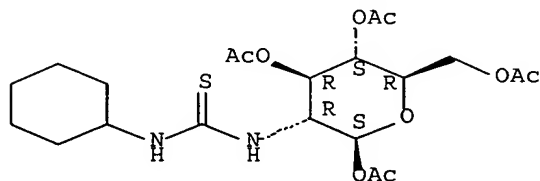
IT 4710-58-1 4710-59-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)

RN 4710-58-1 HCAPLUS

CN  $\beta$ -D-Glucopyranose, 2-[[[(cyclohexylamino)thioxomethyl]amino]-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

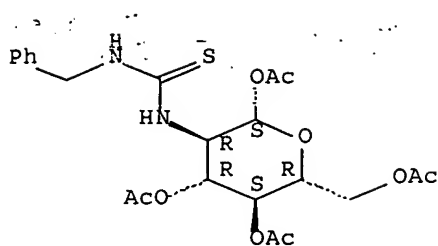
Absolute stereochemistry.



RN 4710-59-2 HCAPLUS

CN  $\beta$ -D-Glucopyranose, 2-deoxy-2-[[[(phenylmethyl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



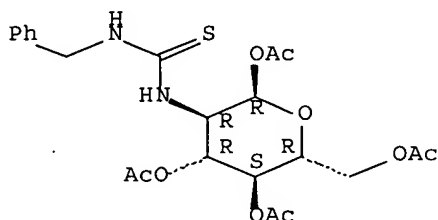
IT 109947-43-5P 109947-44-6P 110012-64-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 109947-43-5 HCAPLUS

CN α-D-Glucopyranose, 2-deoxy-2-[[[(phenylmethyl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

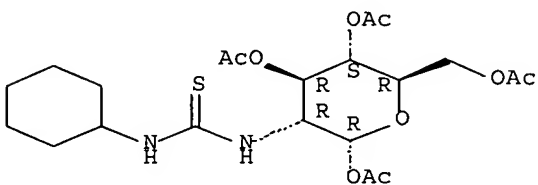
Absolute stereochemistry.



RN 109947-44-6 HCAPLUS

CN α-D-Glucopyranose, 2-[[[(cyclohexylamino)thioxomethyl]amino]-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

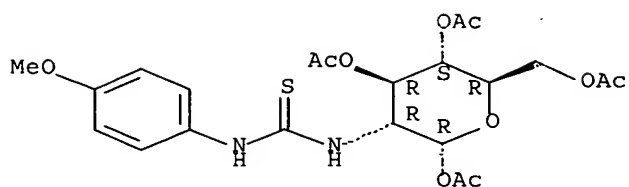
Absolute stereochemistry.



RN 110012-64-1 HCAPLUS

CN α-D-Glucopyranose, 2-deoxy-2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



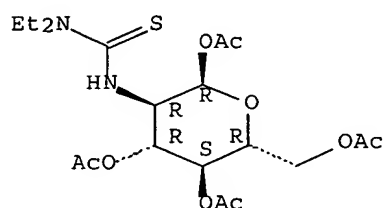
IT 109947-45-7P 109947-46-8P 109947-47-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 109947-45-7 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[[(diethylamino)thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

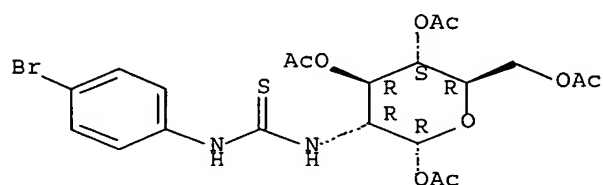
Absolute stereochemistry.



RN 109947-46-8 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-[[[(4-bromophenyl)amino]thioxomethyl]amino]-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

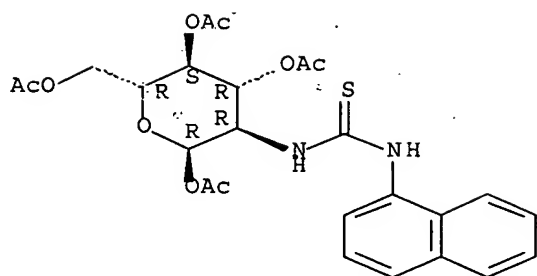
Absolute stereochemistry.



RN 109947-47-9 HCAPLUS

CN  $\alpha$ -D-Glucopyranose, 2-deoxy-2-[[[(1-naphthalenylamino)thioxomethyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 199 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:18456 HCAPLUS Full-text

DOCUMENT NUMBER: 106:18456

TITLE: Stereochemical studies. 88. Saturated heterocycles.  
83. Synthesis of stereoisomeric condensed-skeleton  
2-imino-substituted 1,3-oxazines

AUTHOR(S): Fulop, Ferenc; Bernath, Gabor; Sohar, Pal

CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Med. Sch., Szeged, H-6701,  
Hung.

SOURCE: Tetrahedron (1985), 41(24), 5981-8

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:18456

ED Entered STN: 24 Jan 1987

AB Thiourea and urea derivs. I (X = S, O; R = H, Me; n = 1, 2) were prepared from cis- and trans-2-aminomethyl-1-cyclopentanol, -1-cyclohexanol, and their N-Me derivs. with PhNCX. Treatment of I with MeI and then with alkali furnished 2-phenylimino-1,3-oxazines II. The remarkable fact that the ring closure of trans-I gives trans-II supports the assumption that the trans-1,2-disubstituted-1,3-difunctional cyclopentanes undergo ring closure when 1,3-heterocycles with a delocalized  $\pi$  bond system are formed. With SOCl<sub>2</sub>, cis-I (X = O) afforded an elimination product, whereas trans-I (X = O) yielded cis-II by inversion. <sup>1</sup>H and <sup>13</sup>C NMR spectroscopic studies indicated that in cis-II the O-in conformers are favored and II (R = H) exist exclusively in the tautomeric form with an exo C=N bond.

IT 105545-19-5 105545-21-9 105545-23-1

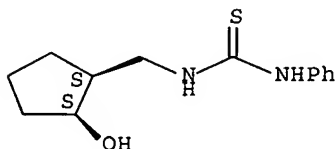
105545-24-2 105545-25-3 105545-26-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of, with Me iodide)

RN 105545-19-5 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N'-phenyl-, cis- (9CI) (CA  
INDEX NAME)

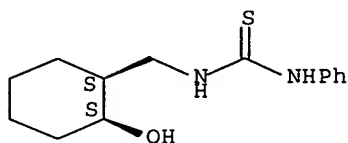
Relative stereochemistry.



RN 105545-21-3 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N'-phenyl-, cis- (9CI) (CA INDEX NAME)

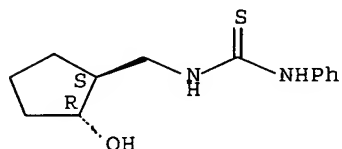
Relative stereochemistry.



RN 105545-23-1 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

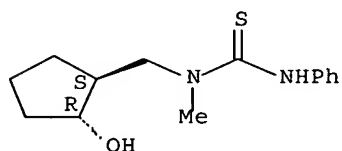
Relative stereochemistry.



RN 105545-24-2 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N-methyl-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

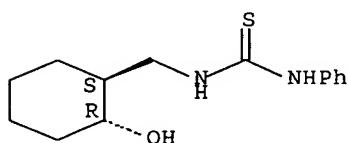
Relative stereochemistry.



RN 105545-25-3 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N'-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

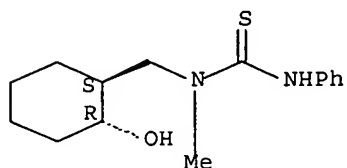




RN 105545-26-4 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N-methyl-N'-phenyl-, trans-  
(9CI) (CA INDEX NAME)

Relative stereochemistry.



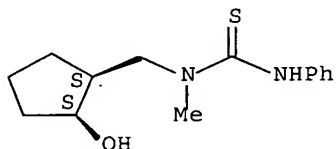
IT 105545-20-8 105545-22-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with Me iodide)

RN 105545-20-8 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclopentyl)methyl]-N-methyl-N'-phenyl-, cis- (9CI)  
(CA INDEX NAME)

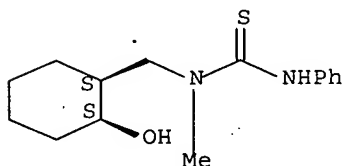
Relative stereochemistry.



RN 105545-22-0 HCAPLUS

CN Thiourea, N-[(2-hydroxycyclohexyl)methyl]-N-methyl-N'-phenyl-, cis- (9CI)  
(CA INDEX NAME)

Relative stereochemistry.



L49 ANSWER 200 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

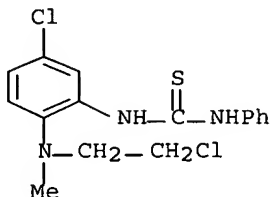
ACCESSION NUMBER: 1987:18484 HCAPLUS Full-text

DOCUMENT NUMBER: 106:18484

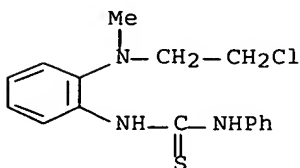
TITLE: Benzoxadiazocines, benzothiadiazocines and  
benzotriazocines. IV. Ring closure of  
1-{2-[N-(2-chloroethyl and 2-hydroxyethyl)-N-

methylamino]phenyl}-3-phenylthioureas.  
Tetrahydroquinoxaline vs. dihydro-3,1,6-  
benzothiadiazocine and hexahydro-1,3,6-  
benzotriazinethione formation

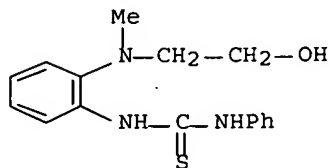
AUTHOR(S): Hornyak, Gyula; Lempert, Karoly; Pjeczka, Etelka;  
Toth, Gabor  
CORPORATE SOURCE: Res. Group Alkaloid Chem., Hung. Acad. Sci., Budapest,  
H-1521, Hung.  
SOURCE: Tetrahedron (1985), 41(14), 2847-54  
CODEN: TETRAB; ISSN: 0040-4020  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 106:18484  
ED Entered STN: 24 Jan 1987  
AB Cyclization of 2,4-RR1C6H3NMeCH2CH2R2 (I) (R = PhNHCSNH, R1 = H, Cl, R2 = Cl)  
by NaOEt in EtOH gave quinoxalines II (R = PhNHCS). Similarly I [R = R3CSNH  
(R3 = morpholino), R1 = H, Cl, R2 = Cl] gave II (R = R3CS). II (R = PhNHCS,  
R1 = H) also was prepared from I (R = PhNHCSNH, R2 = OH) by treatment with  
EtO2CN:NCO2Et (DEAD) and PPh3 and from II (R = R1 = H) and PhNCS. The  
reaction of I (R = PhNHCSNMe, R1 = H, R2 = OH), DEAD, and PPh3 gave  
benzimidazoline III, whereas II (R = PhNHCSNH, R1 = H, R2 = Cl), treated with  
NaI in acetone, gave benzimidazolamine IV.  
IT 103749-10-6  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(/)  
RN 103749-10-6 HCAPLUS  
CN Thiourea, N-[5-chloro-2-[(2-chloroethyl)methylamino]phenyl]-N'-phenyl-  
(9CI) (CA INDEX NAME)



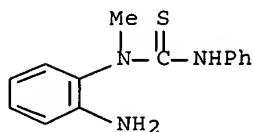
IT 103749-09-3P 103749-13-9P 103749-20-8P  
103749-23-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)  
RN 103749-09-3 HCAPLUS  
CN Thiourea, N-[2-[(2-chloroethyl)methylamino]phenyl]-N'-phenyl- (9CI) (CA  
INDEX NAME)



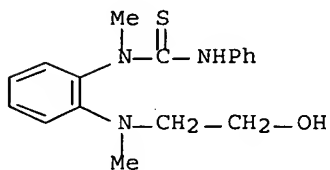
RN 103749-13-9 HCAPLUS  
 CN Thiourea, N-[2-[(2-hydroxyethyl)methylamino]phenyl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 103749-20-8 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N-methyl-N'-phenyl- (9CI) (CA INDEX NAME)



RN 103749-23-1 HCAPLUS  
 CN Thiourea, N-[2-[(2-hydroxyethyl)methylamino]phenyl]-N-methyl-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 201 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:615703 HCAPLUS Full-text  
 DOCUMENT NUMBER: 103:215703  
 TITLE: Regiospecific synthesis of cyclopentane analogs of (2'- and 3'-deoxy-threo-pentofuranosyl)uracil and -2-thiouracil nucleosides  
 AUTHOR(S): Hronowski, Lucjan J. J.; Szarek, Walter A.  
 CORPORATE SOURCE: Carbohydr. Res. Inst., Queen's Univ., Kingston, ON, K7L 3N6, Can.  
 SOURCE: Canadian Journal of Chemistry (1985), 63(10), 2787-97  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DOCUMENT TYPE: Journal

LANGUAGE: English  
OTHER SOURCE(S): CASREACT 103:215703

ED Entered STN: 28 Dec 1985

AB The regiospecific synthesis of two new aminohydroxycyclopentanemethanols, I (R = H, R1 = OH; R = OH, R1 = H) is described. In these syntheses the desired configuration in the cyclopentane ring is obtained by opening the cyclopentanedicarboxylic acid anhydride II with either NH3 or MeOH. The attack by each nucleophile occurs at the carbonyl carbon furthest away from the acetoxy group to give a carbamoyl or an ester function at this position. Since the ester function is destined to become the hydroxymethyl substituent and the carbamoyl function the amino substituent, the type of nucleophile used to open the anhydride det. whether the 2-deoxy or the 3-deoxy isomer is obtained. Coupling of the aminohydroxycyclopentanemethanols with 3-ethoxypropenoyl isocyanate followed by cyclization of the acyl ureas in 2 N H2SO4 gave two new cyclopentane analogs of uracil nucleosides, e.g., III. Coupling of the aminohydroxycyclopentanemethanols with 3-ethoxypropenoyl isothiocyanate followed by cyclization of the acyl thioureas in 15 N aqueous NH3 gave two new cyclopentane analogs of 2-thiouracil nucleosides.

IT 99236-93-8P 99236-95-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

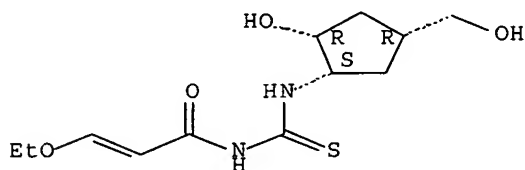
(preparation and cyclization of, [hydroxy(hydroxymethyl)cyclopentyl  
1]thioxopyrimidinone from)

RN 99236-93-8 HCAPLUS

CN 2-Propenamide, 3-ethoxy-N-[[[2-hydroxy-4-(hydroxymethyl)cyclopentyl]amino]thioxomethyl]-, (1 $\alpha$ ,2 $\alpha$ ,4 $\alpha$ )-(9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry unknown.

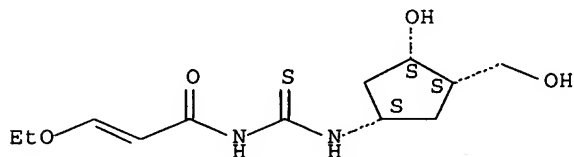


RN 99236-95-0 HCAPLUS

CN 2-Propenamide, 3-ethoxy-N-[[[3-hydroxy-4-(hydroxymethyl)cyclopentyl]amino]thioxomethyl]-, (1 $\alpha$ ,3 $\alpha$ ,4 $\alpha$ )-(9CI) (CA INDEX NAME)

Relative stereochemistry.

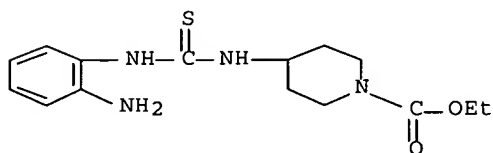
Double bond geometry unknown.



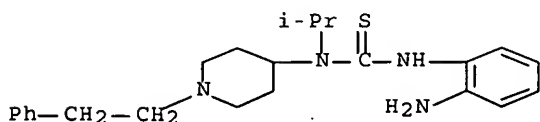
L49 ANSWER 202 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:596033 HCAPLUS Full-text

DOCUMENT NUMBER: 103:196033  
 TITLE: New antihistaminic N-heterocyclic 4-piperidinamines  
 1. Synthesis and antihistaminic activity of  
 N-(4-piperidinyl)-1H-benzimidazol-2-amines  
 AUTHOR(S): Janssens, Frans; Torremans, Joseph; Janssen, Marcel;  
 Stokbroekx, Raymond A.; Luyckx, Marcel; Janssen, Paul  
 A. J.  
 CORPORATE SOURCE: N. V. Janssen Pharm., Res. Lab., Beerse, B-2340, Belg.  
 SOURCE: Journal of Medicinal Chemistry (1985),  
 28(12), 1925-33  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 103:196033  
 ED Entered STN: 14 Dec 1985  
 AB The synthesis of a series of N-(4-piperidinyl)-1H-benzimidazol-2-amines I [R  
 =(un)substituted alkyl, cycloalkyl, (un)substituted CH<sub>2</sub>CH<sub>2</sub>Ph; R<sub>1</sub> = H, alkyl,  
 cyclopropyl; R<sub>2</sub> = H, alkyl, (un)substituted benzyl] (87 compds.) and the  
 preliminary evaluation of their in vitro and in vivo antihistaminic activity  
 are described. Cyclodesulfurization of (2-aminophenyl)thioureas with HgO  
 resulted in 2-aminobenzimidazole intermediates, which were monoalkylated on  
 the endo-nitrogen atom. After deprotection of the piperidine nitrogen atom  
 with aqueous HBr, I were obtained by alkylation, reductive amination, or  
 oxirane ring-opening reactions. The in vivo antihistaminic activity was  
 evaluated by the compound 48/80-induced lethality test in rats and the  
 histamine-induced lethality test in guinea pigs after oral and/or s.c.  
 administration. The duration of action, for a selected number of compds., was  
 studied in the guinea pig. The phenylethyl derivs. showed the most potent  
 antihistamine properties after oral administration in both animal species.  
 IT 73733-81-0P 73733-96-7P 98245-12-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and cyclodesulfurization of)  
 RN 73733-81-0 HCAPLUS  
 CN 1-Piperidinecarboxylic acid, 4-[[[(2-aminophenyl)amino]thioxomethyl]amino]-  
 , ethyl ester (9CI) (CA INDEX NAME)

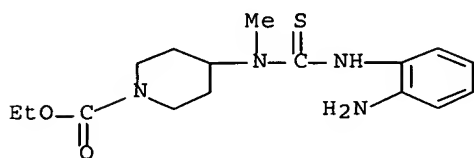


RN 73733-96-7 HCAPLUS  
 CN Thiourea, N'-(2-aminophenyl)-N-(1-methylethyl)-N-[1-(2-phenylethyl)-4-  
 piperidinyl]- (9CI) (CA INDEX NAME)



RN 98245-12-6 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[[(2-aminophenyl)amino]thioxomethyl]methyl-  
amino]-, ethyl ester (9CI) (CA INDEX NAME)

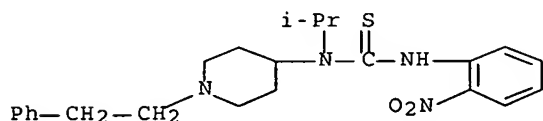


IT 73733-92-3P 98267-83-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and hydrogenation of)

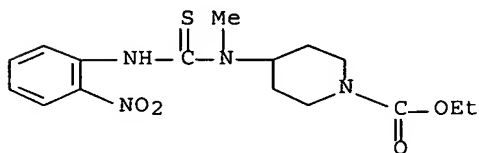
RN 73733-92-3 HCAPLUS

CN Thiourea, N-(1-methylethyl)-N'-(2-nitrophenyl)-N-[1-(2-phenylethyl)-4-  
piperidinyl]- (9CI) (CA INDEX NAME)



RN 98267-83-5 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[methyl[[[(2-nitrophenyl)amino]thioxomethyl]  
amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 203 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:514951 HCAPLUS Full-text

DOCUMENT NUMBER: 105:114951

TITLE: Synthesis of 2-(2-arylimino-3-alkyl-4-oxazolidinyl)-N-  
alkylacetamides and 2-(2-arylimino-3-alkyl-4-  
thiazolidinyl)-N-alkylacetamides from 2(5H)-furanone  
AUTHOR(S): Tyukhteneva, Z. I.; Badovskaya, L. A.; Kozlovskaya, I.  
N.; Muzychenko, G. F.

CORPORATE SOURCE: Politekh. Inst., Krasnodar, 350006, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1985  
, (12), 1629-32

CODEN: KGSSAQ; ISSN: 0453-8234

DOCUMENT TYPE: Journal

LANGUAGE: Russian  
OTHER SOURCE(S): CASREACT 105:114951

ED Entered STN: 03 Oct 1986

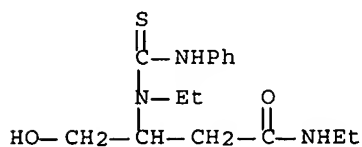
AB Amination of 2(5H)furanone by RNH<sub>2</sub> (R = Et, Bu, C<sub>10</sub>H<sub>21</sub>, furfuryl) gave HOCH<sub>2</sub>CH(NHR)CH<sub>2</sub>CONHR which underwent addition with R<sub>1</sub>NCS (R<sub>1</sub> = Ph, p-ClC<sub>6</sub>H<sub>4</sub>) to give R<sub>1</sub>NHCSNRCH(CH<sub>2</sub>OH)CH<sub>2</sub>CONHR (I). Cyclization of I by concentrated HCl gave thiazolidines II (R = Et, Bu, R<sub>1</sub> = Ph; R = Bu, R<sub>1</sub> = p-ClC<sub>6</sub>H<sub>4</sub>); treating I with MeI and KOH gave oxazolidines III (R = Et, Bu, furfuryl, R<sub>1</sub> = Ph; R = Bu, R<sub>1</sub> = p-ClC<sub>6</sub>H<sub>4</sub>).

IT 104053-26-1P 104053-27-2P 104053-28-3P  
104053-29-4P 104075-45-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, thiazolidines or oxazolidines from)

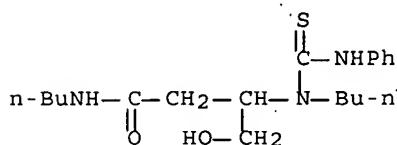
RN 104053-26-1 HCAPLUS

CN Butanamide, N-ethyl-3-[ethyl[(phenylamino)thioxomethyl]amino]-4-hydroxy- (9CI) (CA INDEX NAME)



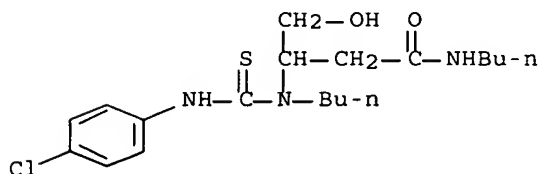
RN 104053-27-2 HCAPLUS

CN Butanamide, N-butyl-3-[butyl[(phenylamino)thioxomethyl]amino]-4-hydroxy- (9CI) (CA INDEX NAME)



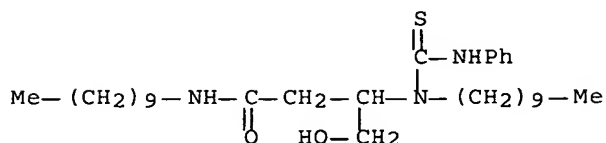
RN 104053-28-3 HCAPLUS

CN Butanamide, N-butyl-3-[butyl[(4-chlorophenyl)amino]thioxomethyl]amino]-4-hydroxy- (9CI) (CA INDEX NAME)



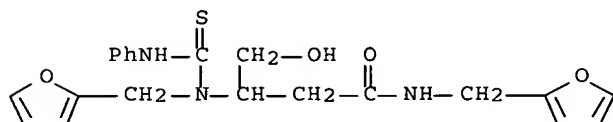
RN 104053-29-4 HCAPLUS

CN Butanamide, N-decyl-3-[decyl[(phenylamino)thioxomethyl]amino]-4-hydroxy-  
(9CI) (CA INDEX NAME)



RN 104075-45-8 HCAPLUS

CN Butanamide, N-(2-furanylmethyl)-3-[(2-furanylmethyl)[(phenylamino)thioxomethyl]amino]-4-hydroxy- (9CI) (CA INDEX NAME)



L49 ANSWER 204 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:578225 HCAPLUS Full-text

DOCUMENT NUMBER: 103:178225

TITLE: Synthesis of 5,6-dihydro-2-thiouracils

AUTHOR(S): Yamamoto, Iwao; Fukui, Kenichi; Yamamoto, Sadao; Ohta, Kazuchika; Matsuzaki, Kei

CORPORATE SOURCE: Fac. Text. Sci. Technol., Shinshu Univ., Nagano, 386, Japan

SOURCE: Synthesis (1985), (6-7), 686-8

CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:178225

ED Entered STN: 30 Nov 1985

AB Reaction of aminopropanenitriles  $R_1NHCH_2CH_2CN$  ( $R_1$  = cyclohexyl, Bu, Et) with isothiocyanates  $R_2NCS$  ( $R_2$  = Ph, Et, Bz) in  $C_6H_6$  at room temperature gave 92-100% adducts  $R_1N(CH_2CH_2CN)CSNHR_2$  (same  $R_1$  and  $R_2$ ), which on refluxing in  $Me_2CO-H_2O$  in the presence of HCl gave 64-96% dihydrothiouracils I (same  $R_1$ ;  $R_2$  = Ph, Et, H). Glucopyranosyl isothiocyanate (II;  $R$  = NCS), obtained from 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl bromide and  $Pb(SCN)_2$ , on refluxing with  $EtNH(CH_2)_2CN$  in ether gave 74% thiourea derivative [II;  $R$  =  $NHCSN[(CH_2)_2CN]Et$ ], which on refluxing in  $Me_2CO$  containing HCl gave 72% II [ $R$  =  $NHCSN[(CH_2)_2CONH_2]Et$ ]. The expected thiouracil derivative was not formed.

IT 30381-01-2P 30381-06-7P 98906-39-9P  
98906-40-2P 98906-41-3P 98906-42-4P

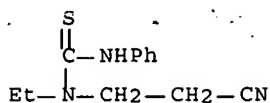
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, dihydrothiouracil derivative from)

RN 30381-01-2 HCAPLUS

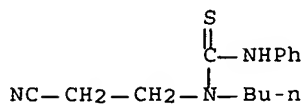
CN Thiourea, N-(2-cyanoethyl)-N-ethyl-N'-phenyl- (9CI) (CA INDEX NAME)





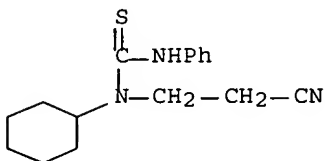
RN 30381-06-7 HCAPLUS

CN Thiourea, N-butyl-N-(2-cyanoethyl)-N'-phenyl- (9CI) (CA INDEX NAME)



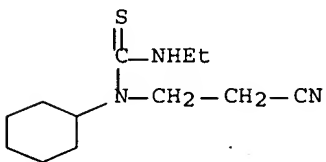
RN 98906-39-9 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N-cyclohexyl-N'-phenyl- (9CI) (CA INDEX NAME)



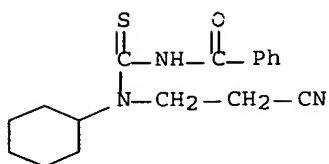
RN 98906-40-2 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N-cyclohexyl-N'-ethyl- (9CI) (CA INDEX NAME)



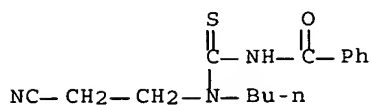
RN 98906-41-3 HCAPLUS

CN Benzamide, N-[[[(2-cyanoethyl)cyclohexylamino]thioxomethyl]- (9CI) (CA INDEX NAME)



RN 98906-42-4 HCAPLUS

CN Benzamide, N-[[butyl(2-cyanoethyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



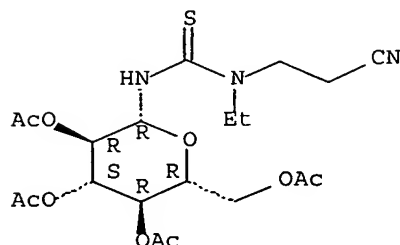
IT 98906-46-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and hydration of)

RN 98906-46-8 HCAPLUS

CN Thiourea, N-(2-cyanoethyl)-N-ethyl-N'-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



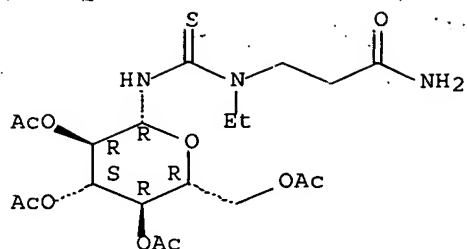
IT 98906-47-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 98906-47-9 HCAPLUS

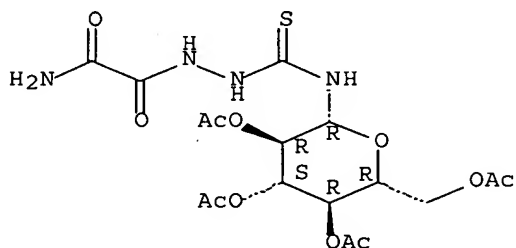
CN Propanamide, 3-[ethyl[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 205 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:515887 HCAPLUS Full-text  
 DOCUMENT NUMBER: 107:115887  
 TITLE: Synthesis of the N-hexosides of 2-amino-5-carbamoyl-1,3,4-oxadiazole  
 AUTHOR(S): Wojtowicz, Mscislaw  
 CORPORATE SOURCE: Dep. New Drugs, Inst. Drug Res. Control, Warsaw, 00-725, Pol.  
 SOURCE: Acta Poloniae Pharmaceutica (1985), 42(6), 521-6  
 CODEN: APPHAX; ISSN: 0001-6837  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Polish  
 ED Entered STN: 05 Oct 1987  
 AB 1-Isothiocyano-1-deoxy-2,3,4,6-tetra-O-acetyl- $\beta$ -D- glucopyranose condensed with semioxamazine in anhydrous dioxane yielded 76% I (R = Ac), which on treatment with yellow HgO in EtOH cyclized to give 77% II (R = Ac). I and II (R = H) were obtained in 71 and 60%, resp., by treating the resp. Ac derivs. with a saturated NH<sub>3</sub> solution in MeOH at room temperature. Analogous reactions were carried out in the galactose series. II were prepared as potential virucides.  
 IT 69435-29-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 69435-29-6 HCAPLUS  
 CN Acetic acid, amino-oxo-, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

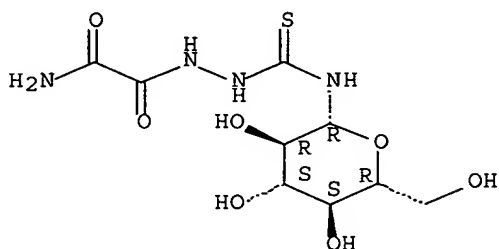


IT 110238-09-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 110238-09-0 HCAPLUS

CN Acetic acid, aminooxo-, 2-[( $\beta$ -D-glucopyranosylamino)thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 206 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:138388 HCAPLUS Full-text

DOCUMENT NUMBER: 106:138388

TITLE: Synthesis of novel pyrazole and pyrazolo[3,4-d]pyrimidine derivatives

AUTHOR(S): Machon, Zdzislaw; Witkiewicz, Krystyna

CORPORATE SOURCE: Dep. Org. Chem., Sch. Med., Wroclaw, 50-137, Pol.

SOURCE: Acta Poloniae Pharmaceutica (1985), 42(6), 516-20

CODEN: APPHAX; ISSN: 0001-6837

DOCUMENT TYPE: Journal

LANGUAGE: Polish

OTHER SOURCE(S): CASREACT 106:138388

ED Entered STN: 01 May 1987

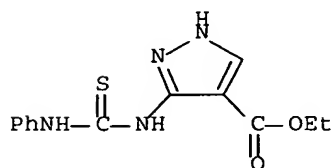
AB Pyrazoles I (R = H, 3-, 4-Cl) were prepared in 69.5-74.5% yields by the reaction of 3-amino-4-ethoxycarbonylpyrazole (II) with RC<sub>6</sub>H<sub>4</sub>NCO in Et<sub>2</sub>O; small amts. of pyrazolylureas III (X = O) were isolated as byproducts. III (X = O) were prepared in 58.5-65% yields by heating I in pyridine. III (X = S; R = H, 4-Cl) were prepared in 54-60.5% yields by refluxing II with RC<sub>6</sub>H<sub>4</sub>NCS in PhMe. III, refluxed with 5% aqueous NaOH, gave 48-78% pyrazolopyrimidines IV (X = O, R = H, 3-, 4-Cl; X = S, R = H, 4-Cl). In preliminary pharmacol. tests with mice, I (R = 4-Cl) was comparable with aspirin in preventing the development of exptl. edema.

IT 107466-14-8P 107466-15-9P

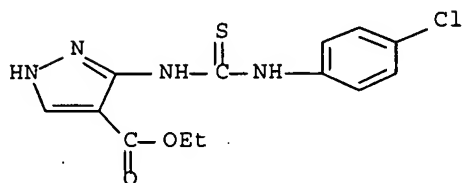
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 107466-14-8 HCAPLUS

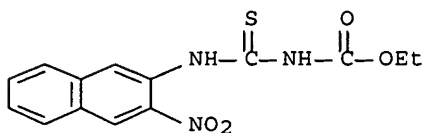
CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



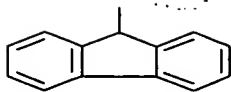
RN 107466-15-9 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 207 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1984:510877 HCAPLUS Full-text  
 DOCUMENT NUMBER: 101:110877  
 TITLE: Synthesis and structural study of azidonaphtho-as-triazines. "Annellation effect" in azide-tetrazole equilibria  
 AUTHOR(S): Hajos, G.; Messmer, A.; Neszmelyi, A.; Parkanyi, L.  
 CORPORATE SOURCE: Cent. Res. Inst. Chem., Hung. Acad. Sci., Budapest, H-1525, Hung.  
 SOURCE: Journal of Organic Chemistry (1984), 49(17), 3199-203  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 101:110877  
 ED Entered STN: 29 Sep 1984  
 AB Azide derivs. of the three possible naphtho-as-triazines were prepared and the equilibrium leading to fused tetrazoles were investigated by NMR spectroscopy and X-ray anal. Comparison of the differently annelated systems (topol. isomers) revealed an essential annellation effect. While 3-azidonaphtho[2,1-c]-as-triazine and 3-azidonaphtho[1,2-c]-as-triazine formed b-fused tetrazoles I and II, the linear 3-azidonaphtho[2,3-e]-as-triazine gave III.  
 IT 90914-03-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 90914-03-7 HCAPLUS  
 CN Carbamic acid, [[(3-nitro-2-naphthalenyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



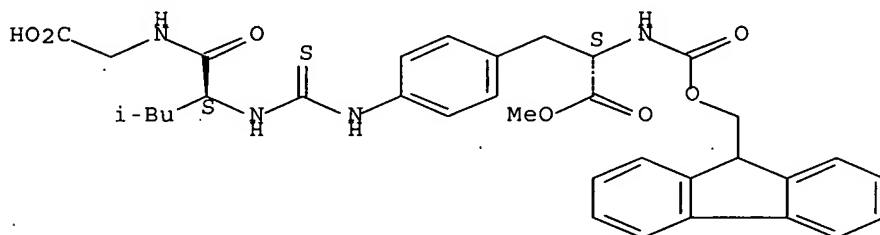




RN 95753-60-9 HCAPLUS

CN Glycine, N-[N-[[[4-[2-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methoxy-3-oxopropyl]phenyl]amino]thioxomethyl]-L-leucyl]-, (S)- (9CI) (CA INDEX NAME)

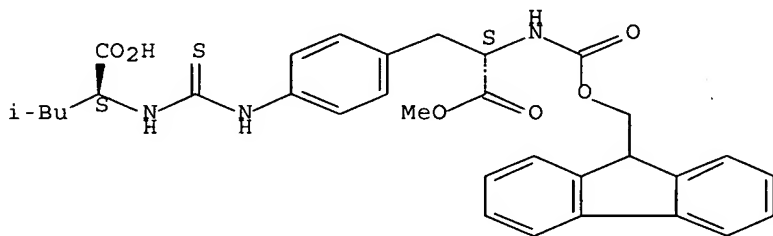
Absolute stereochemistry.



RN 95753-64-3 HCAPLUS

CN L-Phenylalanine, 4-[[[(1-carboxy-3-methylbutyl)amino]thioxomethyl]amino]-N-[[[(9H-fluoren-9-ylmethoxy)carbonyl]-,  $\alpha$ -methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



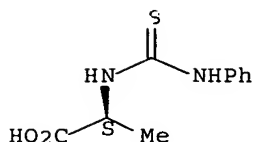
IT 65428-88-8P 95753-61-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 65428-88-8 HCAPLUS

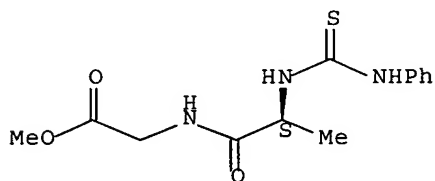
CN L-Alanine, N-[(phenylamino)thioxomethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

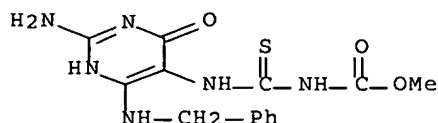


RN 95753-61-0 HCAPLUS  
 CN Glycine, N- [N-[(phenylamino)thioxomethyl]-L-alanyl]-, methyl ester (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

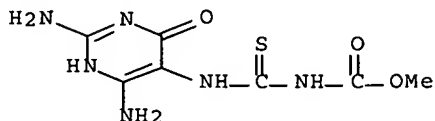


L49 ANSWER 209 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1984:630468 HCAPLUS Full-text  
 DOCUMENT NUMBER: 101:230468  
 TITLE: A convenient synthesis of 2-N-methoxycarbonylaminooxazolo[5,4-d]pyrimidines  
 AUTHOR(S): Chern, Ji Wang; Wise, Dean S.; Townsend, Leroy B.  
 CORPORATE SOURCE: Coll. Pharm., Univ. Michigan, Ann Arbor, MI, 48109-1065, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1984), 21(4), 1245-6  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 101:230468  
 ED Entered STN: 22 Dec 1984  
 AB Treating aminopyridinones I (R = H, PhCH2; R1 = H) with MeO2CNCS gave I (R1 = MeO2CNHCS) which were treated with dicyclohexylcarbodiimide in DMF to give the title compds. II.  
 IT 93201-97-9P 93201-98-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, oxazolopyrimidine from)  
 RN 93201-97-9 HCAPLUS  
 CN Carbamic acid, [[[2-amino-1,4-dihydro-4-oxo-6-[(phenylmethyl)amino]-5-pyrimidinyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)

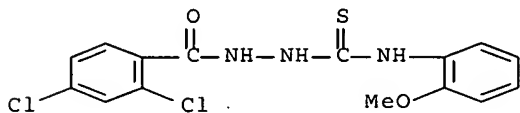




RN 93201-98-0 HCAPLUS  
 CN Carbamic acid, [[[2,6-diamino-1,4-dihydro-4-oxo-5-pyrimidinyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 210 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:95585 HCAPLUS Full-text  
 DOCUMENT NUMBER: 102:95585  
 TITLE: Synthesis and antifungal activities of some new substituted 1,2,4-triazoles and related compounds  
 AUTHOR(S): Goswami, B. N.; Katakya, J. C. S.; Boruah, J. N.; Nath, S. C.; Bordoloi, D. N.  
 CORPORATE SOURCE: Org. Chem. Div., Reg. Res. Lab., Jorhat, 785 006, India  
 SOURCE: Journal of the Indian Chemical Society (1984), 61(6), 530-3  
 CODEN: JICSAH; ISSN: 0019-4522  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 22 Mar 1985  
 AB Cyclization of thiosemicarbazides I [R = H, (un)substituted Ph, PhCH<sub>2</sub>] with NaOH gave triazoles II. Methylthio ether derivs. of II were also prepared I (R = PhCH<sub>2</sub>), and II (R = m-ClC<sub>6</sub>H<sub>4</sub>) showed fungicidal activity against Curvularia verruciformis.  
 IT 93677-77-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, cyclization, and fungicidal activity of)  
 RN 93677-77-1 HCAPLUS  
 CN Benzoic acid, 2,4-dichloro-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 211 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:454005 HCAPLUS Full-text  
 DOCUMENT NUMBER: 103:54005  
 TITLE: Reaction products from 4-carbethoxymethyl-1,2,4-triazoline-5-thione derivatives. II. Reaction of 4-carbazoylmethyl-1,2,4-triazoline-5-thione with

isothiocyanates

AUTHOR(S): Dobosz, Maria  
CORPORATE SOURCE: Inst. Fundam. Chem., Sch. Med., Lublin, 20-081, Pol.  
SOURCE: Acta Poloniae Pharmaceutica (1984), 41(4),  
451-8  
CODEN: APPHAX; ISSN: 0001-6837  
DOCUMENT TYPE: Journal  
LANGUAGE: Polish  
OTHER SOURCE(S): CASREACT 103:54005

ED Entered STN: 24 Aug 1985

AB In the search for new antitubercular agents, twelve triazoline derivs. I (R = Me and Ph, R1 = Ph, Et, C6H11, PhCH2, 2-MeOC6H4, and EtO2CCH2) were prepared in >90% yields by treating the appropriate II (R same) with R1NCS (R1 same) at 90-100°. All I were converted by refluxing with 10% NaOH into the corresponding (triazolylmethyl)triazolines III (R and R1 same), from which the SH group was subsequently removed by refluxing with Raney-Ni in EtOH to yield IV.

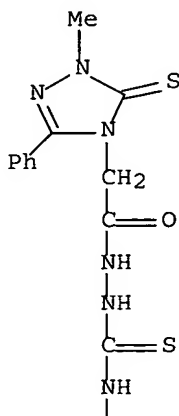
IT 97310-40-2P 97310-41-3P 97310-42-4P  
97310-43-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with sodium hydroxide,  
(triazolylmethyl)triazoline derivs. by)

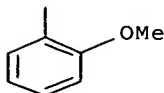
RN 97310-40-2 HCAPLUS

CN 4H-1,2,4-Triazole-4-acetic acid, 1,5-dihydro-1-methyl-3-phenyl-5-thioxo-,  
2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

PAGE 1-A

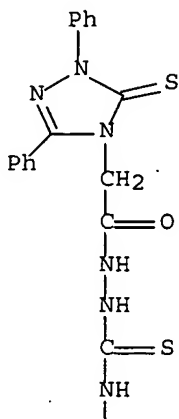


PAGE 2-A

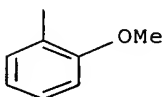


RN 97310-41-3 HCAPLUS  
 CN 4H-1,2,4-Triazole-4-acetic acid, 1,5-dihydro-1,3-diphenyl-5-thioxo-,  
 2-[[ (2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

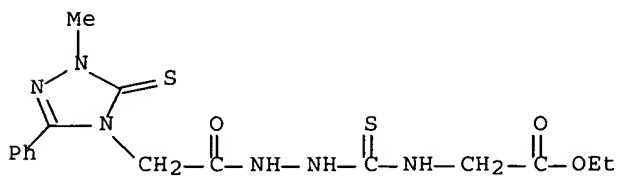
PAGE 1-A



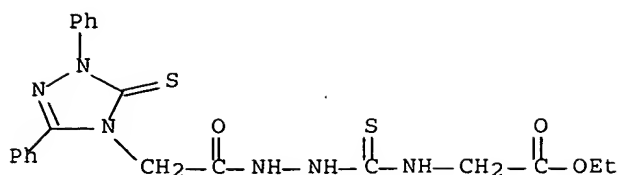
PAGE 2-A



RN 97310-42-4 HCAPLUS  
 CN 4H-1,2,4-Triazole-4-acetic acid, 1,5-dihydro-1-methyl-3-phenyl-5-thioxo-,  
 2-[[ (2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX  
 NAME)



RN 97310-43-5 HCAPLUS  
 CN 4H-1,2,4-Triazole-4-acetic acid, 1,5-dihydro-1,3-diphenyl-5-thioxo-,  
 2-[[ (2-ethoxy-2-oxoethyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX  
 NAME)



L49 ANSWER 212 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:24441 HCAPLUS Full-text

DOCUMENT NUMBER: 102:24441

TITLE: Synthesis and antifungal activity of some new  
2[2-(4'-aryl-5'-methoxystyryl)-1',2',4'-triazol-3'-  
thiol]pyridines [4-aryl-5-[2-[2-(2-  
pyridyl)vinyl]phenoxy]methyl-1,2,4-triazole-3-thiones]

AUTHOR(S): Bhattacharya, B. K.; Dirk, V. D.; Hoornaert, G.;  
Sawant, S.

CORPORATE SOURCE: Dep. Chem., Polytech. Inst. New York, Brooklyn, NY,  
11201, USA

SOURCE: Bokin Bobai (1984), 12(8), 383-90

CODEN: BOBODP; ISSN: 0385-5201

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 26 Jan 1985

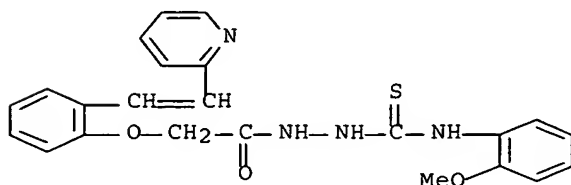
AB The hydrazide I (R = NH<sub>2</sub>) on treatment with R<sub>1</sub>NCS (R<sub>1</sub> = Ph, substituted Ph, 2-furyl) furnished I (R = NHCS<sub>2</sub>NHR<sub>1</sub>) which on cyclization with NaOH yielded the triazolethiols II (R<sub>2</sub> = H). On treatment with R<sub>3</sub>COCl (R<sub>3</sub> = Ph, Cl<sub>6</sub>H<sub>4</sub>, 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>) II (R<sub>2</sub> = H) yielded II (R<sub>2</sub> = COR<sub>3</sub>). Sixteen of these compds. were screened for their fungicidal activity against *Aspergillus niger* and *Aspergillus flavus* compared with Benomyl, structure activity relationship are discussed.

IT 93912-20-0P 93912-21-1P 93912-28-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and ring closure of)

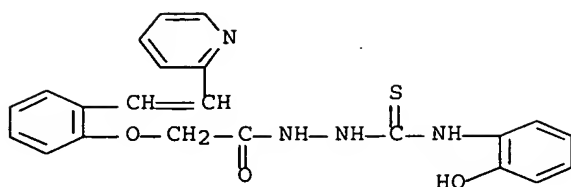
RN 93912-20-0 HCAPLUS

CN Acetic acid, [2-[2-(2-pyridinyl)ethenyl]phenoxy]-, 2-[[2-(methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

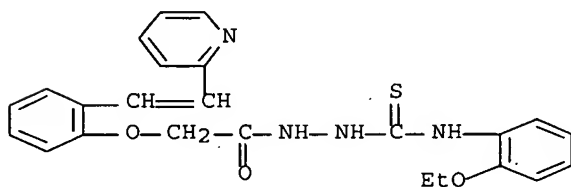


RN 93912-21-1 HCAPLUS

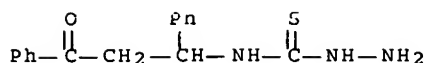
CN Acetic acid, [2-[2-(2-pyridinyl)ethenyl]phenoxy]-, 2-[[2-(hydroxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 93912-28-8 HCAPLUS  
 CN Acetic acid, [2-[2-(2-pyridinyl)ethenyl]phenoxy]-, 2-[[2-(ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 213 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:504934 HCAPLUS Full-text  
 DOCUMENT NUMBER: 103:104934  
 TITLE: Chalcone as starting material for synthesis of 1,2,4-triazepines  
 AUTHOR(S): Richter, P.; Steiner, K.  
 CORPORATE SOURCE: Sekt. Pharm., Ernst-Moritz-Arndt-Univ., Greifswald, 2200, Ger. Dem. Rep.  
 SOURCE: Studies in Organic Chemistry (Amsterdam) (1984), 18(Bio-Org. Heterocycl.), 217-20  
 CODEN: SOCHDQ; ISSN: 0165-3253  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 103:104934  
 ED Entered STN: 04 Oct 1985  
 AB PhCH:CHCOPh reacted with thiocyanic acid to give PhCH(NCS)CH<sub>2</sub>COPh (I), which was treated with MeNHNH<sub>2</sub> and the resulting PhCOCH<sub>2</sub>CHPhNHCSNMeNH<sub>2</sub> cyclized by heating in p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H to give the triazepine II (R = Me). II was treated with MeNHNH<sub>2</sub> in EtOH containing HCl to give II (R = Me). II (R = H) was similarly prepared  
 IT 72334-64-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (intramol. cyclization of, triazepine derivative from)  
 RN 72334-64-6 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(3-oxo-1,3-diphenylpropyl)- (9CI) (CA INDEX NAME)



IT 98036-10-3P

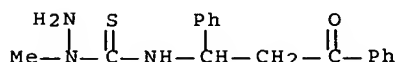
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of, triazepine derivative from)

RN 98036-10-3 HCAPLUS

CN Hydrazinecarbothioamide, 1-methyl-N-(3-oxo-1,3-diphenylpropyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 214 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:6377 HCAPLUS Full-text

DOCUMENT NUMBER: 100:6377

TITLE: Reactions of carbonyl isothiocyanates with nucleophilic bifunctional reagents

AUTHOR(S): Uher, Michal; Berkes, Dusan; Lesko, Jan; Floch, Lubomir

CORPORATE SOURCE: Dep. Org. Chem., Slovak Inst. Technol., Bratislava, 812 37, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications (1983), 48(6), 1651-8

CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 100:6377

ED Entered STN: 12 May 1984

AB Acyl isothiocyanates RCONCS (R = Me, Cl<sub>3</sub>C, Ph, 2-furanyl) condensed with I (X = CH, Z = O, S, NH; X = N, Z = NH) and II to give acylthioureas. Those derived from I (X = CH, Z = S, NH) were cyclized with elimination of H<sub>2</sub>S to give III.

IT 87874-02-0P 87874-03-1P 87874-04-2P

87874-05-3P 87874-10-0P 87874-11-1P

87874-12-2P

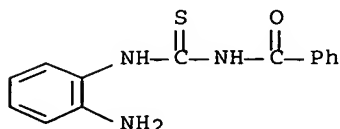
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

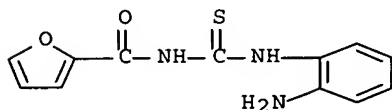
RN 87874-02-0 HCAPLUS

CN Benzamide, N-[[[(2-aminophenyl)amino]thioxomethyl]-, radical ion(1+) (9CI) (CA INDEX NAME)



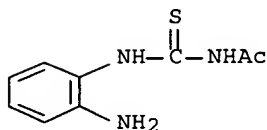
RN 87874-03-1 HCAPLUS

CN 2-Furancarboxamide, N-[[[(2-aminophenyl)amino]thioxomethyl]-, radical ion(1+) (9CI) (CA INDEX NAME)



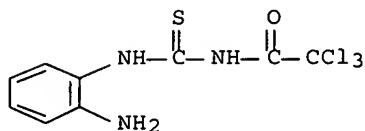
RN 87874-04-2 HCAPLUS

CN Acetamide, N-[[[(2-aminophenyl)amino]thioxomethyl]-, radical ion(1+) (9CI) (CA INDEX NAME)



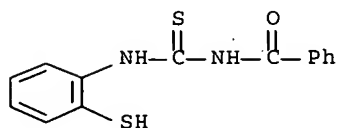
RN 87874-05-3 HCAPLUS

CN Acetamide, N-[[[(2-aminophenyl)amino]thioxomethyl]-2,2,2-trichloro-, radical ion(1+) (9CI) (CA INDEX NAME)



RN 87874-10-0 HCAPLUS

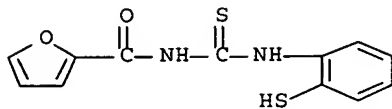
CN Benzamide, N-[[[(2-mercaptophenyl)amino]thioxomethyl]-, radical ion(1+) (9CI) (CA INDEX NAME)



RN 87874-11-1 HCAPLUS

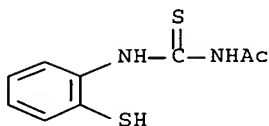
CN 2-Furancarboxamide, N-[[[(2-mercaptophenyl)amino]thioxomethyl]-, radical ion(1+) (9CI) (CA INDEX NAME)

ion(1+) (9CI) (CA INDEX NAME)



RN 87874-12-2 HCAPLUS

CN Acetamide, N-[[2-mercaptophenyl]amino]thioxomethyl-, radical ion(1+)  
(9CI) (CA INDEX NAME)

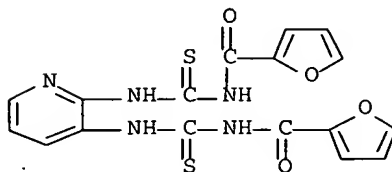


IT 60373-60-6P 87874-06-4P 87874-07-5P  
87874-08-6P 87874-09-7P 87874-13-3P  
87874-14-4P 87874-15-5P 87874-16-6P  
87874-17-7P 87993-50-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

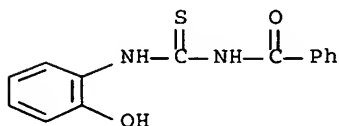
RN 60373-60-6 HCAPLUS

CN 2-Furancarboxamide, N,N'-[2,3-pyridinediylbis(iminocarbonothioyl)]bis-  
(9CI) (CA INDEX NAME)



RN 87874-06-4 HCAPLUS

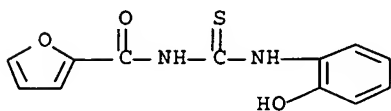
CN Benzamide, N-[[2-hydroxyphenyl]amino]thioxomethyl-, radical ion(1+)  
(9CI) (CA INDEX NAME)



RN 87874-07-5 HCAPLUS

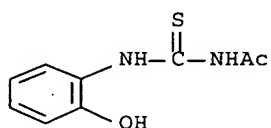


RN 2-Furancarboxamide, N-[[[(2-hydroxyphenyl)amino]thioxomethyl]-, radical ion(1+)  
 CN (9CI) (CA INDEX NAME)



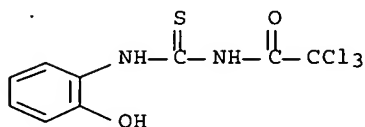
RN 87874-08-6 HCAPLUS

CN Acetamide, N-[[[(2-hydroxyphenyl)amino]thioxomethyl]-, radical ion(1+)  
 (9CI) (CA INDEX NAME)



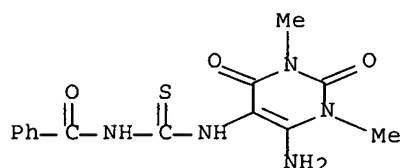
RN 87874-09-7 HCAPLUS

CN Acetamide, 2,2,2-trichloro-N-[[[(2-hydroxyphenyl)amino]thioxomethyl]-, radical ion(1+)  
 (9CI) (CA INDEX NAME)



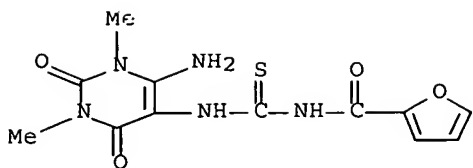
RN 87874-13-3 HCAPLUS

CN Benzamide, N-[[[(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



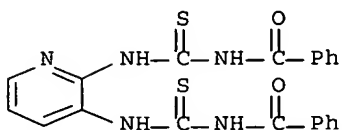
RN 87874-14-4 HCAPLUS

CN 2-Furancarboxamide, N-[[[(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



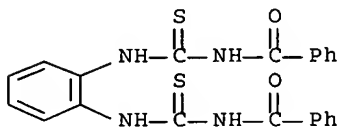
RN 87874-15-5 HCAPLUS

CN Benzamide, N,N'-[2,3-pyridinediylbis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



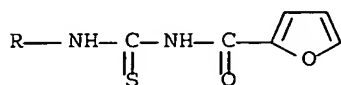
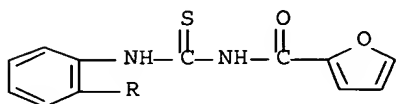
RN 87874-16-6 HCAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



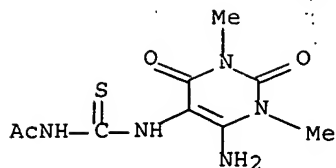
RN 87874-17-7 HCAPLUS

CN 2-Furancarboxamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)

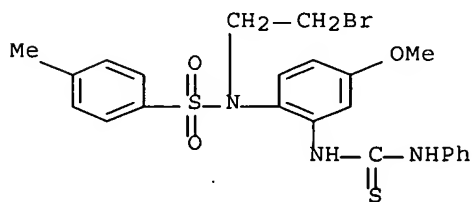


RN 87993-50-8 HCAPLUS

CN Acetamide, N-[[[(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)

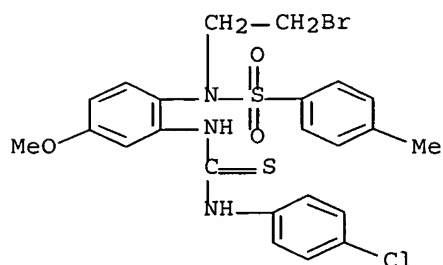


L49 ANSWER 215 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1983:470691 HCAPLUS Full-text  
 DOCUMENT NUMBER: 99:70691  
 TITLE: Benzoxadiazocines, benzothiadiazocines and  
 benzotriazocines - III. The synthesis of  
 2-(subst.)amino- and 2-(2-subst.hydrazino)-6-  
 (alkylsulfonyl and arylsulfonyl)-5,6-dihydro-4H-3,1,6-  
 benzothiadiazocines  
 AUTHOR(S): Bertha, Ferenc; Hornyak, Gyula; Zauer, Karoly;  
 Lempert, Karoly; Pjeczka, Etelka; Toth, Gabor  
 CORPORATE SOURCE: Res. Group Alkaloid Chem., Hungarian Acad. Sci.,  
 Budapest, Hung.  
 SOURCE: Tetrahedron (1983), 39(7), 1203-12  
 CODEN: TETRAB; ISSN: 0040-4020  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 99:70691  
 ED Entered STN: 12 May 1984  
 AB Benzothiadiazocines I (R = MeO, H, Cl, Br, Me; R1 = H, R2 = H, Ph, 4-ClC6H4,  
 4-O2NC6H4, 2-MeO2CC6H4, 4-EtO2CC6H4, EtO2CCH2, Me2NCH2CH2, pyrrolidinoethyl,  
 piperidinoethyl, morpholinoethyl, (CH2)3NMe2, CHMeCH2CH2CH2NMe2, 2-  
 pyridinylmethyl, NHMe, NHPh; NR1R2 = morpholino; R3 = 4-MeC6H4, Ph, Me) were  
 prepared by treating 4,2-R(O2N)C6H3NHSO2R with BrCH2CH2Br, reduction to the  
 amine, conversion to the isothiocyanate, aminolysis, and cyclization. I have  
 central nervous system activity (no data).  
 IT 86662-02-4P 86662-03-5P 86662-04-6P  
86662-05-7P 86662-06-8P 86662-08-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 86662-02-4 HCAPLUS  
 CN Benzenesulfonamide, N-(2-bromoethyl)-N-[4-methoxy-2-  
 [(phenylamino)thioxomethyl]amino]phenyl]-4-methyl- (9CI) (CA INDEX NAME)



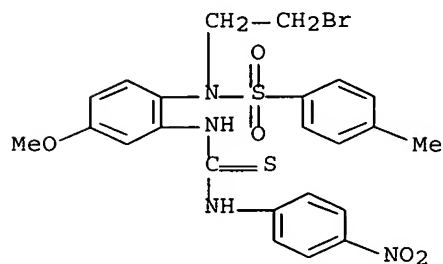
RN 86662-03-5 HCAPLUS

CN Benzenesulfonamide, N-(2-bromoethyl)-N-[2-[[[(4-chlorophenyl)amino]thioxomethyl]amino]-4-methoxyphenyl]-4-methyl- (9CI)  
(CA INDEX NAME)



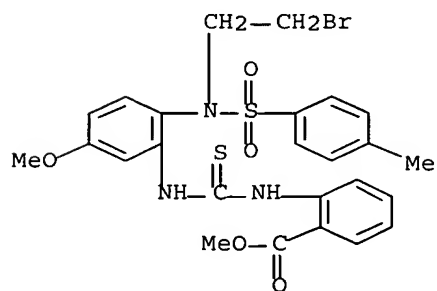
RN 86662-04-6 HCAPLUS

CN Benzenesulfonamide, N-(2-bromoethyl)-N-[4-methoxy-2-[[[(4-nitrophenyl)amino]thioxomethyl]amino]phenyl]-4-methyl- (9CI) (CA INDEX NAME)



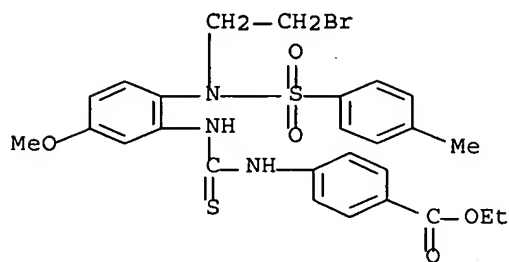
RN 86662-05-7 HCAPLUS

CN Benzoic acid, 2-[[[[2-[(2-bromoethyl)[(4-methylphenyl)sulfonyl]amino]-5-methoxyphenyl]amino]thioxomethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

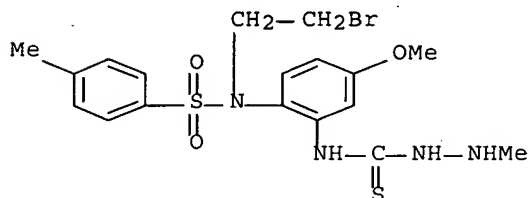


RN 86662-06-8 HCAPLUS

CN Benzoic Acid, 4-[[[2S[(2-bromoethyl)[(4-methylphenyl)sulfonyl]amino]-5-methoxyphenyl]amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

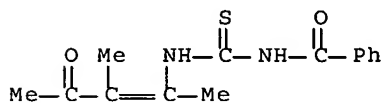


RN 86662-08-0 HCAPLUS  
CN Hydrazinecarbothioamide, N-[2-[(2-bromoethyl)[(4-methylphenyl)sulfonyl]amino]-5-methoxyphenyl]-2-methyl- (9CI) (CA INDEX NAME)



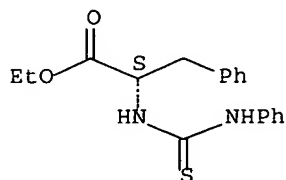
L49 ANSWER 216 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1983:197351 HCAPLUS Full-text  
DOCUMENT NUMBER: 98:197351  
TITLE: Cyclization kinetics and mechanism of  
N-benzoyl-N'-(1,2-dimethyl-3-oxo-1-butenyl)thiourea  
AUTHOR(S): Kavalek, Jaromir; Potesil, Tomas; Sterba, Vojeslav  
CORPORATE SOURCE: Dep. Org. Chem., Inst. Chem. Technol., Pardubice, 532  
10, Czech.  
SOURCE: Collection of Czechoslovak Chemical Communications (1983), 48(2), 578-85  
CODEN: CCCCAK; ISSN: 0366-547X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
ED Entered STN: 12 May 1984  
AB Cyclization kinetics of N-benzoyl-N'-(1,2-dimethyl-3-oxo-1-butenyl)thiourea were studied in aqueous and methanolic solns. of acids and bases. In all cases the cyclization product is 4,5,6-trimethyl-2,5-dihydro-2-thioxopyrimidine or its protonated or deprotonated forms. In dilute methanolic and aqueous HCl the substrate reacts in its monoprotonated form. The cyclization in basic media is catalyzed by MeO- or HO- and also by primary and secondary amines at such pH values where the catalysis by the lyate ion is practically insignificant. Tertiary amines and acetate ion do not catalyze the cyclization.

IT 85741-87-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation), PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, kinetics and mechanism of)  
 RN 85741-87-3 HCAPLUS  
 CN Benzamide, N-[[ (1,2-dimethyl-3-oxo-1-butenyl)amino]thioxomethyl]- (9CI)  
 (CA INDEX NAME)



L49 ANSWER 217 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1983:488146 HCAPLUS Full-text  
 DOCUMENT NUMBER: 99:88146  
 TITLE: Facile formation of 1,3-disubstituted  
 2,3,5,6-tetrahydro-2-thioxopyrimidin-4(1H)-ones and  
 2-N,3-disubstituted 2,3,5,6-tetrahydro-2-imino-1,3-  
 thiazin-4-ones from thioureas and  $\beta$ -haloacyl  
 halides  
 AUTHOR(S): Okawara, Tadashi; Nakayama, Kentaro; Furukawa, Mitsuru  
 CORPORATE SOURCE: Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1983),  
 31(2), 507-12  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 99:88146  
 ED Entered STN: 12 May 1984  
 AB The reaction of RNHCSNHR1 [R = PhCH2, Me, Ph, (S)-PhCH2CHCO2Et, R1 = Ph; R =  
 Me, R1 = CH2Ph] with R2CH2CMeR3COCl (R2 = R3 = Br; R2 = Cl, R3 = Me) in 5%  
 NaOH-CH2Cl2 gave 2,3,5,6-tetrahydro-2-thioxopyrimidin-4(1H)-ones I or 2,3,5,6-  
 tetrahydro-2-imino-1,3-thiazin-4-ones II in yields of 51-63 or 54-68%, resp.  
 IT 86726-92-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclization of, with halomethylpropionyl chlorides)  
 RN 86726-92-3 HCAPLUS  
 CN L-Phenylalanine, N-[(phenylamino)thioxomethyl]-, ethyl ester (9CI) (CA  
 INDEX NAME)

Absolute stereochemistry.

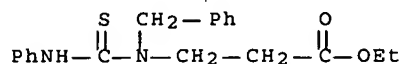


IT 86727-07-3P

40-0000-0000 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); FACT (Reactant or reagent)  
(preparation and cyclization of)

RN 86727-07-3 HCAPLUS

CN  $\beta$ -Alanine, N-[(phenylamino)thioxomethyl]-N-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

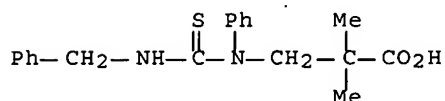


IT 86727-04-0P 86727-05-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

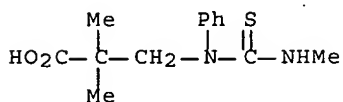
RN 86727-04-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-3-[phenyl[(phenylmethyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



RN 86727-05-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-3-[[[(methylamino)thioxomethyl]phenylamino]- (9CI) (CA INDEX NAME)



L49 ANSWER 218 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:470661 HCAPLUS Full-text

DOCUMENT NUMBER: 99:70661

TITLE: Synthesis of 2,3,4,5-1H-tetrahydroimidazo[2,1-b]quinazoline-2,5-diones and analogous 2,3,4,5-1H-tetrahydroimidazo[1,2-a]thieno[2,3-d] (or [3,2-d])-pyrimidine-2,5-diones

AUTHOR(S): Kienzle, Frank; Kaiser, Ado; Minder, Rudolf E.

CORPORATE SOURCE: Pharm. Forsch., F. Hoffmann-La Roche and Co. A.-G., Basel, CH-4002, Switz.

SOURCE: Helvetica Chimica Acta (1983), 66(1), 148-57

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 99:70661

ED Entered STN: 12 May 1984

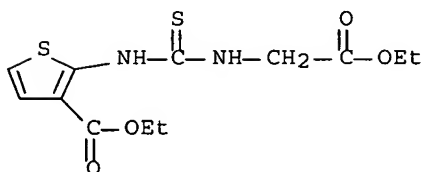
AE The title compds. were prepared thiocyanates I [R1 = R2 = H, Me; R1 = Me, Ph, R2 = H; R2R2 = (CH2)4] added Et glycinate to give thioureas II which cyclized with 2N NaOH to give thienopyrimidines III. These were N-methylated and the products cyclized with R3NH2 (R3 = H, CH2Ph, Bu) to give imidazothienopyrimidinediones IV. Isothiocyanates V (R not defined; R1 = R2 = H, R3 = H, Cl, MeO, CO2Me; R1 = Me, R3 = H, R2 = H, Cl; R1 = R3 = H, R2 = Cl) cyclized directly with glycinate to give quinazolinones VI which were similarly converted into imidazoquinazolinones VII. Also prepared were thiazolothienopyrimidinediones VIII [R1 = R2 = Me; R1R2 = (CH2)4]. None of IV, VII, or VIII were blood platelet aggregation inhibitors. Except for IV [R1R2 = (CH2)4] and VIII, all compds. were gastric secretion inhibitors and inhibited allergic reactions.

IT 85716-89-8P 85716-90-1P 85716-91-2P  
85716-92-3P 85716-93-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

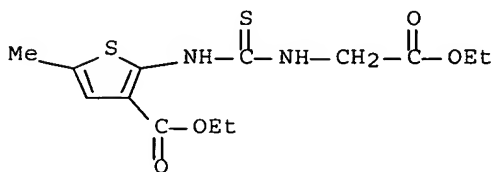
RN 85716-89-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 85716-90-1 HCAPLUS

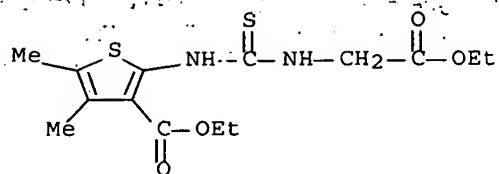
CN 3-Thiophenecarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 85716-91-2 HCAPLUS

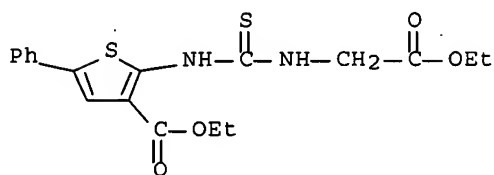
CN 3-Thiophenecarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)





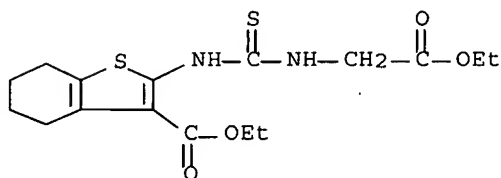
RN 85716-92-3 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-5-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 85716-93-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(2-ethoxy-2-oxoethyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 219 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:120980 HCAPLUS Full-text

DOCUMENT NUMBER: 100:120980

TITLE: Synthesis and fungicidal activity of some new thiosemicarbazides and their derivatives

AUTHOR(S): Mishra, V. K.; Bahel, S. C.

CORPORATE SOURCE: Dep. Chem., Gorakhpur Univ., Gorakhpur, 273 001, India

SOURCE: Indian Journal of Pharmaceutical Sciences (1983), 45(3), 109-12

CODEN: IJSIDW; ISSN: 0250-474X

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Thiosemicarbazides I (R = Cl, Me; R1 = Me, Et) were prepared from the resp. 2-phenoxypropionic hydrazides and alkoxyphenyl isothiocyanates; and I were converted to oxadiazoles and thiadiazoles II (X = O, S). I and II exhibited fungicidal activity. Thus, a mixture of 2-ClC6H4OCHMeCONHNH2 and 2-MeOC6H4NCS

in MeOH was refluxed to give I (R = 2-Cl, OR1 = 2-OMe) I and HgO in refluxing MeOH gave II (X = O); treatment of I with concentrated H2SO4 at room temperature gave II (X = S).

IT 89263-48-9P

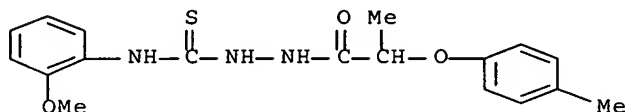
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, oxadiazole derivative from)

RN 89263-48-9 HCAPLUS

CN Propanoic acid, 2-(4-methylphenoxy)-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



IT 89263-50-3P

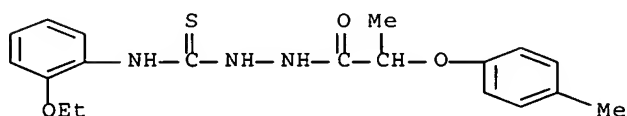
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, thiadiazole derivative from)

RN 89263-50-3 HCAPLUS

CN Propanoic acid, 2-(4-methylphenoxy)-, 2-[[[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



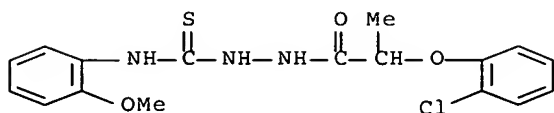
IT 89263-40-1P 89263-44-5P 89263-46-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and fungicidal activity of)

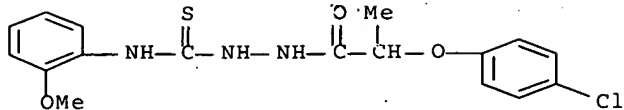
RN 89263-40-1 HCAPLUS

CN Propanoic acid, 2-(2-chlorophenoxy)-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



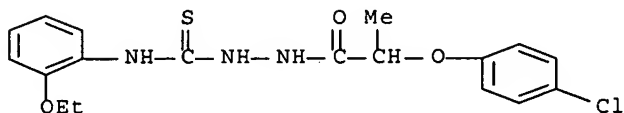
RN 89263-44-5 HCAPLUS

CN Propanoic acid, 2-(4-chlorophenoxy)-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 89263-46-7 HCAPLUS

CN Propanoic acid, 2-(4-chlorophenoxy)-, 2-[[[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

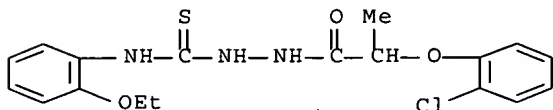


IT 89263-42-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 89263-42-3 HCAPLUS

CN Propanoic acid, 2-(2-chlorophenoxy)-, 2-[[[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 220 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:107732 HCAPLUS Full-text

DOCUMENT NUMBER: 98:107732

TITLE: New polymer syntheses. IV. Polypeptides of lysine and ornithine with pending pyrimidine bases

AUTHOR(S): Kricheldorf, Hans R.; Fehrle, Martin

CORPORATE SOURCE: Inst. Angew. Chem., Univ. Hamburg, Hamburg, D-2000/13, Fed. Rep. Ger.

SOURCE: Biopolymers (1982), 21(11), 2097-122

CODEN: BIPMAA; ISSN: 0006-3525

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Nucleoamino acids I (Z = PhCH<sub>2</sub>O<sub>2</sub>C; X = S, n = 3, 4; X = O, n = 4) were converted to N-carboxyanhydrides II, which were polymerized to give title polymers III. N-Carboxyanhydrides IV and V (n = 3, 4) were also prepared and then polymerized to give the corresponding polymers. H<sub>2</sub>N(CH<sub>2</sub>)<sub>n</sub>CH(NHZ)CO<sub>2</sub>H (n = 3, 4) were converted to the trimethylsilyl esters, which were arylated with MeOCH:CMcONCX (X = O, S) to give MeOCH:CMcONHCXNH(CH<sub>2</sub>)<sub>n</sub>CH(NHZ)CO<sub>2</sub>H (X = S, n = 3, 4; X = O, n = 4), which were cyclized to give the corresponding I. The

d.p. values for the above polymers were 20-30; IR data indicated a helical structure. All the above homopolypeptides were insol. in H<sub>2</sub>O, but copolymers containing lysine hydrobromide exhibited good solubility in H<sub>2</sub>O.

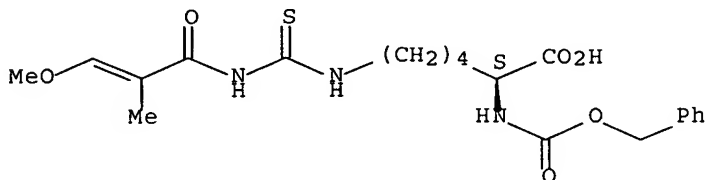
IT 77268-24-7P 84800-34-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 77268-24-7 HCAPLUS

CN 2-Oxa-6,8,14-triazapentadec-3-en-15-oic acid, 13-carboxy-4-methyl-5-oxo-7-thioxo-, 15-(phenylmethyl) ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 84800-34-0 HCAPLUS

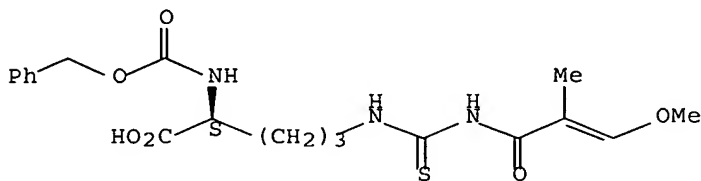
CN 2-Oxa-6,8,13-triazatetradec-3-en-14-oic acid, 12-carboxy-4-methyl-5-oxo-7-thioxo-, 14-(phenylmethyl) ester, (S)-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 77268-23-6

CMF C19 H25 N3 O6 S

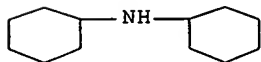
Absolute stereochemistry.



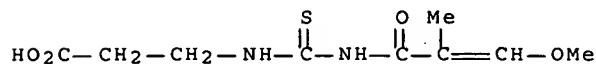
CM 2

CRN 101-83-7

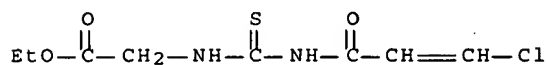
CMF C12 H23 N



IT 84768-17-2P Preparation of  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and saponification of)  
 RN 84768-17-2 HCAPLUS  
 CN  $\beta$ -Alanine, N-[[ (3-methoxy-2-methyl-1-oxo-2-  
 propenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



IT 84768-16-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 84768-16-1 HCAPLUS  
 CN Glycine, N-[[ (3-chloro-1-oxo-2-propenyl)amino]thioxomethyl]-, ethyl ester  
 (9CI) (CA INDEX NAME)



L49 ANSWER 221 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:72644 HCAPLUS Full-text

DOCUMENT NUMBER: 98:72644

TITLE: Syntheses of disaccharide isothiocyanates  
 and nucleoside related compounds

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Kobayashi, Minae

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Nippon Kagaku Kaishi (1982), (10), 1673-81

CODEN: NKAKB8; ISSN: 0369-4577

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

ED Entered STN: 12 May 1984

AB Modified nucleoside analogs were prepared starting from hepta-O-acetyl- $\beta$ -lactosyl isothiocyanate (I), hepta-O-acetyl- $\beta$ -maltosyl isothiocyanate (II), and hepta-O-acetyl- $\beta$ -cellobiosyl isothiocyanate (III). I-III reacted with acylhydrazines to give RNHCSNHNHCO(CH<sub>2</sub>)<sub>n</sub>Me (R = disaccharide residue), which afforded triazole disaccharides (IV) by treatment with Ac<sub>2</sub>O-H<sub>3</sub>PO<sub>4</sub> through cyclodehydration reaction. Reactions of I-III with 6-amino-1,3-dimethyluracil gave disaccharide aminoisothiazolopyrimidines (V) in good yields. Treatment of I-III with 2-amino-2-deoxy- $\beta$ -D-glucopyranose yielded diglycosylthioureas. Reactions of I-III with chloroethylamine hydrochloride under basic conditions afforded disaccharide imidazolidinethiones (VI) instead of N-glycosyl-N'-chloroethylthioureas.

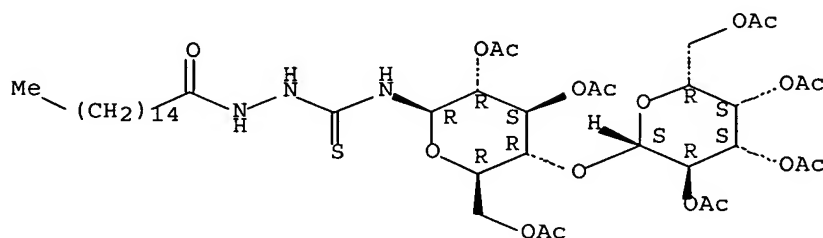
IT 80681-67-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

RN 80681-67-0 HCAPLUS

CN Hexadecanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-

acetyl-β-D-galactopyranosyl)-β-D-glucopyranosyl]amino]methyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

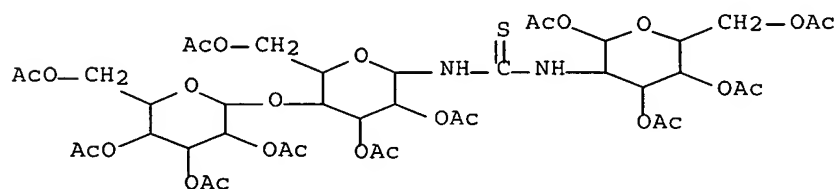


IT 80699-37-2P 84574-93-6P 84574-94-7P  
84574-95-8P 84574-96-9P 84574-97-0P  
84575-01-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 80699-37-2 HCAPLUS

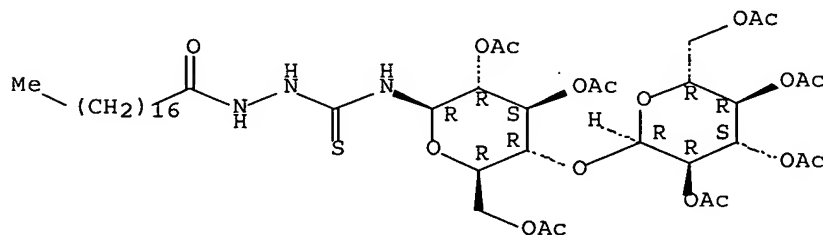
CN β-D-Glucopyranose, 2-deoxy-2-[[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-β-D-glucopyranosyl]amino]methyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)



RN 84574-93-6 HCAPLUS

CN Octadecanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)-β-D-glucopyranosyl]amino]methyl]hydrazide (9CI) (CA INDEX NAME)

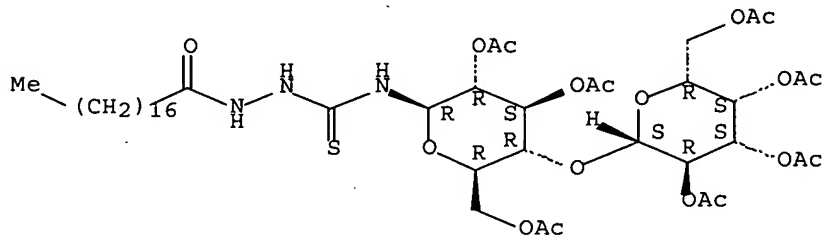
Absolute stereochemistry.



RN 84574-94-7 HCAPLUS

CN Octadecanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)- $\beta$ -D-glucopyranosyl]amino]methyl]hydrazide (9CI) (CA INDEX NAME)

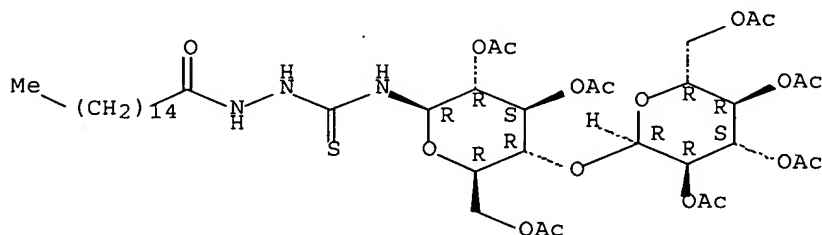
Absolute stereochemistry.



RN 84574-95-8 HCAPLUS

CN Hexadecanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)- $\beta$ -D-glucopyranosyl]amino]methyl]hydrazide (9CI) (CA INDEX NAME)

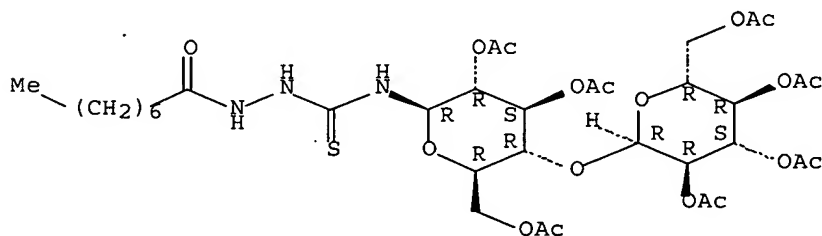
Absolute stereochemistry.



RN 84574-96-9 HCAPLUS

CN Octanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)- $\beta$ -D-glucopyranosyl]amino]methyl]hydrazide (9CI) (CA INDEX NAME)

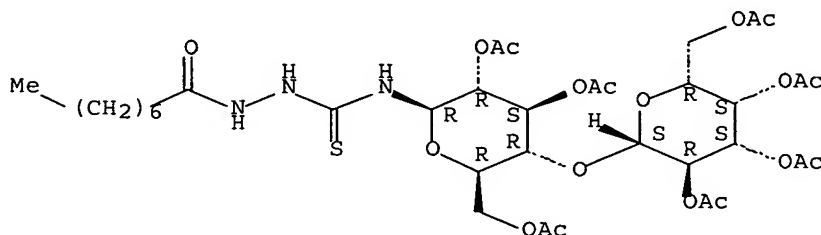
Absolute stereochemistry.



RN 84574-97-0 HCAPLUS

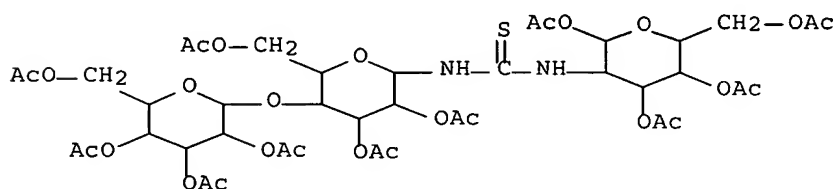
CN Octanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-  
 $\beta$ -D-galactopyranosyl)- $\beta$ -D-glucopyranosyl]amino]methyl]hydrazide  
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 84575-01-9 HCAPLUS

CN  $\beta$ -D-Glucopyranose, 2-deoxy-2-[[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)- $\beta$ -D-glucopyranosyl]amino]methyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)



L49 ANSWER 222 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:85919 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 96:85919

TITLE: Pyrazolopyrimidine nucleosides. 13. Synthesis of the novel C-nucleoside 5-amino-3-( $\beta$ -D-ribofuranosyl)pyrazolo[4,3-d]pyrimidin-7-one, a guanosine analog related to the nucleoside antibiotic formycin B

AUTHOR(S): Lewis, Arthur F.; Townsend, Leroy B.

CORPORATE SOURCE: Coll. Pharm., Univ. Michigan, Ann Arbor, MI, 48109, USA

SOURCE: Journal of the American Chemical Society (1982), 104(4), 1073-7

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

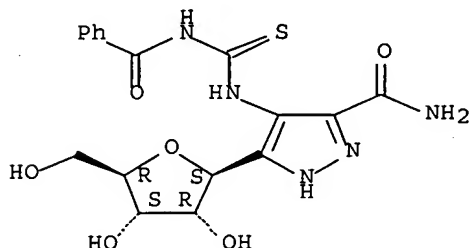
ED Entered STN: 12 May 1984

AB C-Nucleoside I was prepared from the adenosine-type C-nucleoside antibiotic formycin. The synthetic route used an initial ring opening followed by a series of chemical transformations and subsequent ring closure to afford I. This route was also used to prepare the heterocyclic aglycon, 5-aminopyrazolo[4,6-d]pyrimidin-7-one.

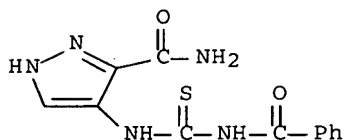


IT 80186-72-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 80186-72-7 HCAPLUS  
 CN 1H-Pyrazole-3-carboxamide, 4-[[[(benzoylamino)thioxomethyl]amino]-5-β-D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 80186-70-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and methylation of)  
 RN 80186-70-5 HCAPLUS  
 CN 1H-Pyrazole-3-carboxamide, 4-[[[(benzoylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



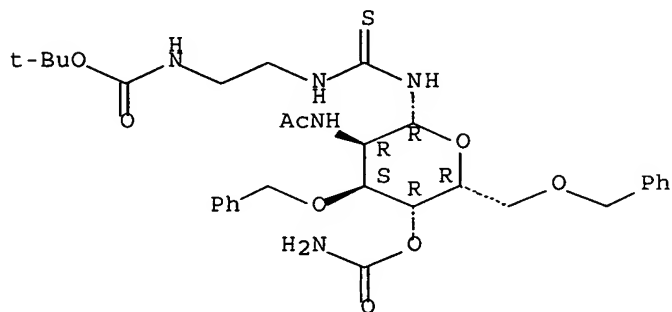
L49 ANSWER 223 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1982:563380 HCAPLUS Full-text  
 DOCUMENT NUMBER: 97:163380  
 TITLE: Total chemical structure of streptothricin  
 AUTHOR(S): Kusumoto, Shoichi; Kambayashi, Yoshikazu; Imaoka, Susumu; Shima, Keiyu; Shiba, Tetsuo  
 CORPORATE SOURCE: Fac. Sci., Osaka Univ., Toyonaka, 560, Japan  
 SOURCE: Journal of Antibiotics (1982), 35(7), 925-7  
 CODEN: JANTAJ; ISSN: 0021-8820  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB The structure of streptothricin is established as I by comparison of the 1H-NMR spectra of natural streptothricin F (I; n = 1) and 2 synthetic model compds.  
 IT 83071-88-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of).

RN 83071-28-9 HCAPLUS

CN Carbamic acid, [2-[[[2-(acetylaminó)-4-O-(aminocarbonyl)-2-deoxy-3,6-bis-O-(phenylmethyl)-β-D-gulopyranosyl]amino]thioxomethyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 224 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:72003 HCAPLUS Full-text

DOCUMENT NUMBER: 98:72003

TITLE: Synthesis of aryloxy/aryl acetyl thiosemicarbazides, substituted 1,3,4-oxadiazoles, 1,3,4-thiadiazoles, 1,2,4-triazoles and related compounds as potential fungicides

AUTHOR(S): Sharma, R. S.; Bahel, S. C.

CORPORATE SOURCE: Chem. Dep., Gorakhpur Univ., Gorakhpur, 273 001, India

SOURCE: Journal of the Indian Chemical Society (1982), 59(7), 877-80

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:72003

ED Entered STN: 12 May 1984

AB RCONHNHCSNHR1 (R = 4,3-ClMeC6H3OCH2, 2,4-Me2C6H3OCH2, 2,6-Me2C6H3OCH2, PhCH2; R1 = 2-MeOC6H4, 3,4-Me2C6H3, 3,4-Cl2C6H3) were prepared and underwent cyclization to give the oxadiazoles I and thiadiazoles II. The triazoles III were prepared by treating RCH2CONHNH2 with R1NCS. Some III were converted to the corresponding methylthio, disulfide, and alkylenebisthio derivs. The prepared compds. were screened against Aspergillus niger and Helminthosporium oryzae and found to possess moderate to fairly good antifungal activity.

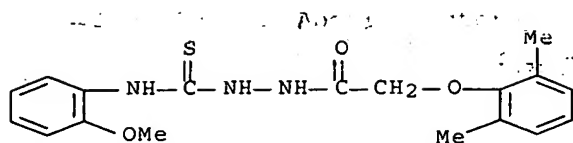
IT 64013-50-9P 84396-78-1P 84396-81-6P  
84396-84-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, cyclization, and fungicidal activity of)

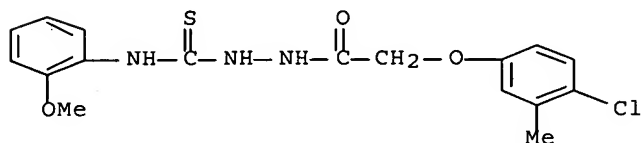
RN 64013-50-9 HCAPLUS

CN Acetic acid, (2,6-dimethylphenoxy)-, 2-[[[2-(methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



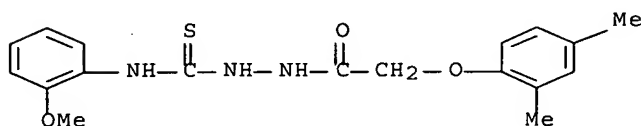
RN 84396-78-1 HCAPLUS

CN Acetic acid, (4-chloro-3-methylphenoxy)-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



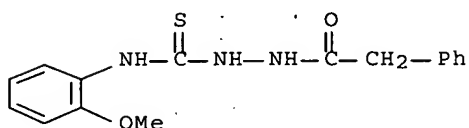
RN 84396-81-6 HCAPLUS

CN Acetic acid, (2,4-dimethylphenoxy)-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 84396-84-9 HCAPLUS

CN Benzeneacetic acid, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 225 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:16643 HCAPLUS Full-text

DOCUMENT NUMBER: 98:16643

TITLE: Synthesis and bioactivities of some derivatives of naphtho[1,2-d]thiazolo[3,2-a]pyrimidin-4-one

AUTHOR(S): Liu, Kang Chien; Lee, Liang Chu; Shih, Bi Jane; Chen, Chieh Fu; Tao, Tung Mei

CORPORATE SOURCE: Pharm. Inst., Nationaldefensiv-Medizinakadem., Taipeh, Peop. Rep. China

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1982)

315(10), 872-7  
CODEN: ARPMAS; ISSN: 0365-6233

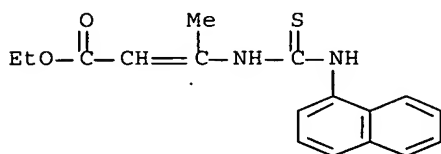
DOCUMENT TYPE: Journal  
LANGUAGE: German  
OTHER SOURCE(S): CASREACT 98:16643  
ED Entered STN: 12 May 1984

AB The title compds. I (R1 = H, R2 = Me; R1 = H, R2 = Ph) were prepared in 40-50% yields from II by cyclocondensation with R2COCHR1CO2Et. Alternatively, condensing 1-naphthyl isothiocyanate with H2NCMe:CHCO2Et gave III, whose cyclization with Br gave a naphthothiazole which when heated at 150° gave 72% I (R1 = H, R2 = Me). Addnl. obtained was I (R1 = H, R2 = CH2CO2Et). I were effective diuretics in rats at 10-40 mg/kg dosages for 0-330 min.

IT 84038-94-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 84038-94-8 HCAPLUS

CN 2-Butenoic acid, 3-[[[(1-naphthalenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 226 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:598525 HCAPLUS Full-text

DOCUMENT NUMBER: 97:198525

TITLE: The synthesis of 3-methyl-2-thiohydantoin-4-14C, a pharmacologically active metabolite of the antithyroid drug methimazole

AUTHOR(S): Hood, Hugh T.; Skellern, Graham G.

CORPORATE SOURCE: Dep. Pharm., Univ. Strathclyde, Glasgow, G1 1XW, UK

SOURCE: Journal of Labelled Compounds and Radiopharmaceuticals (1982), 19(6), 779-82

CODEN: JLCRD4; ISSN: 0362-4803

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

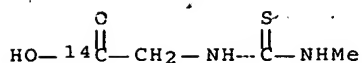
AB Treatment of HO2C14CH2NH2 with MeNCS in dilute aqueous NaOH at 40° to room temperature for 5 h gave MeNHCSNHCH214CO2H, which was cyclized on treatment with dilute HCl at room temperature for >16 h to give the title compound of sp. activity 19.86 µCi/mg in 83.6% yield.

IT 83579-18-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and ring closure of)

RN 83579-18-4 HCAPLUS

CN Glycine-1-14C, N-[(methylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 227 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:217774 HCAPLUS Full-text

DOCUMENT NUMBER: 96:217774

TITLE: Synthesis of some new thiosemicarbazides, thiadiazoles, triazoles and their derivatives as potential antiviral agents

AUTHOR(S): Bahadur, Surendra; Singh, Surendra P.; Shukla, Mahesh K.

CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226007, India

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1982

), 315(4), 312-17

CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 96:217774

ED Entered STN: 12 May 1984

AB Thiadiazoles I and triazoles II-IV (R = Ph, 4-MeC<sub>6</sub>H<sub>4</sub>, 2-EtOC<sub>6</sub>H<sub>4</sub>, 4-ClC<sub>6</sub>H<sub>4</sub>; R1 = H, Me) were prepared from 4-ClC<sub>6</sub>H<sub>4</sub>SCH<sub>2</sub>CONHNHC(S)NHR which were obtained from 4-ClC<sub>6</sub>H<sub>4</sub>SCH<sub>2</sub>CONHNH<sub>2</sub>. I (R = 4-MeC<sub>6</sub>H<sub>4</sub>) showed virucidal activity.

IT 81877-70-5P 81877-71-6P

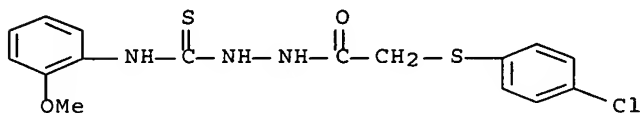
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, triazole from)

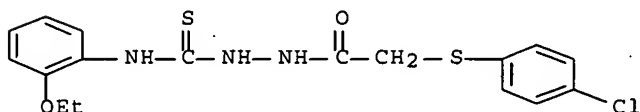
RN 81877-70-5 HCAPLUS

CN Acetic acid, [(4-chlorophenyl)thio]-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



RN 81877-71-6 HCAPLUS

CN Acetic acid, [(4-chlorophenyl)thio]-, 2-[[[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 228 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:492183 HCAPLUS Full-text

DOCUMENT NUMBER: 97:92183  
 TITLE: New antifungal fluorinated thiazolyl ureas, thioureas and thiazolidones  
 AUTHOR(S): Pathak, R. B.; Bahel, S. C.  
 CORPORATE SOURCE: Chem. Dep., Gorakhpur Univ., Gorakhpur, 273001, India  
 SOURCE: Bokin Bobai (1982), 10(4), 155-8  
 CODEN: BOBODP; ISSN: 0385-5201

DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 12 May 1984

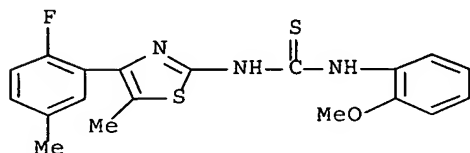
AB Amines I (R = 4-FC<sub>6</sub>H<sub>4</sub>, 2,5-FMeC<sub>6</sub>H<sub>3</sub>, R<sub>1</sub> = H, Me, R<sub>2</sub> = H) were treated with KOCN to give I (R<sub>2</sub> = CONH<sub>2</sub>). I (R = 2,5-FMeC<sub>6</sub>H<sub>3</sub>, R<sub>1</sub> = H, Me, R<sub>2</sub> = CSNHC<sub>6</sub>H<sub>4</sub>R<sub>3</sub>, R<sub>3</sub> = 4-Cl, 4-Me, 4-OMe, 2-OMe) were prepared by treating I (R<sub>2</sub> = H) with R<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NCS and were cyclized with ClCH<sub>2</sub>CO<sub>2</sub>H to give II. I (R<sub>2</sub> = CONH<sub>2</sub>, CSNHC<sub>6</sub>H<sub>4</sub>R<sub>3</sub>) and II all had fungicidal activity, with I (R<sub>2</sub> = CSNHC<sub>6</sub>H<sub>4</sub>R<sub>3</sub>) having the best activity.

IT 82298-87-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, with chloroacetic acid)

RN 82298-87-1 HCAPLUS

CN Thiourea, N-[4-(2-fluoro-5-methylphenyl)-5-methyl-2-thiazolyl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

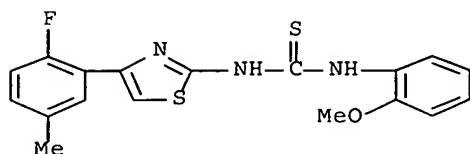


IT 82298-84-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, cyclization with chloroacetic acid, and fungicidal activity of)

RN 82298-84-8 HCAPLUS

CN Thiourea, N-[4-(2-fluoro-5-methylphenyl)-2-thiazolyl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 229 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:72655 HCAPLUS Full-text

DOCUMENT NUMBER: 98:72655

TITLE: Studies on nucleoside analogs. XXV. Synthesis of 5,7-dioxypyrimido[5,4-e]-as-triazine glycosides

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Ohokubo, Kikuko

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan  
 SOURCE: Nucleosides & Nucleotides (1982), 1(2), 147-54  
 CODEN: NUNUD5; ISSN: 0732-8311

DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 12 May 1984

AB Treating RNCS (R = glycosyl, e.g., 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl, 2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl, hepta-O-acetyl- $\beta$ -D-lactosyl) with 5,6-diamino-1,3-dimethyluracil gave thiouraeas I, which on oxidative cyclization by NBS gave five title glycosides II (same R).

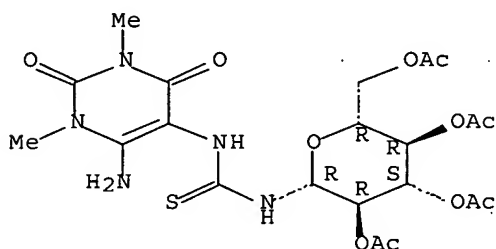
IT 71399-35-4 71399-36-5 71399-37-6

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (oxidative cyclization of, glycosyldimethyldioxypyrimidotriazinethione from)

RN 71399-35-4 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI)  
 (CA INDEX NAME)

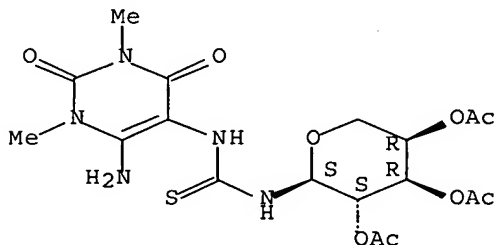
Absolute stereochemistry.



RN 71399-36-5 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI)  
 (CA INDEX NAME)

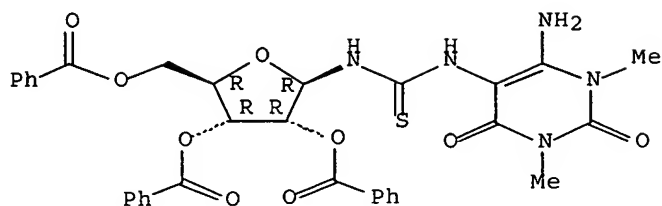
Absolute stereochemistry.



RN 71399-37-6 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



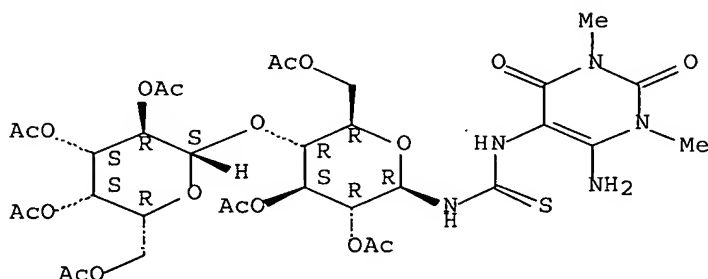
IT 84440-68-6P 84440-69-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and oxidative cyclization of,  
glycosyldiemthyldioxypyrimidotriazinethione from)

RN 84440-68-6 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-beta-D-galactopyranosyl)-beta-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

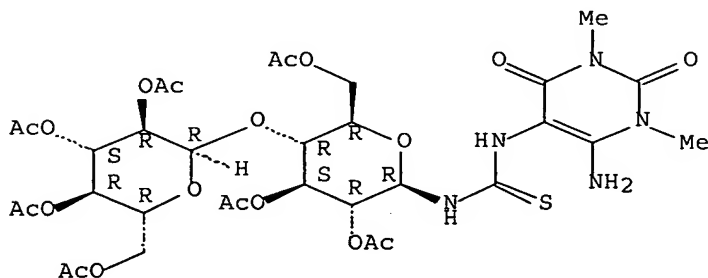
Absolute stereochemistry.



RN 84440-69-7 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-alpha-D-glucopyranosyl)-beta-D-glucopyranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





ACCESSION NUMBER: 1982:218180 HCAPLUS Full-text

DOCUMENT NUMBER: 96:218180

TITLE: Synthesis of nucleoside analogs using  
2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl  
isothiocyanate

AUTHOR(S): Valentiny, M.; Martvon, A.

CORPORATE SOURCE: Dep. Org. Chem., Slovak Tech. Univ., Bratislava, 812  
37, Czech.

SOURCE: Chemické Zvesti (1982), 36(1), 117-23

CODEN: CHZVAN; ISSN: 0366-6352

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Synthesis of nucleoside analogs I [R = H, R1 = Me; R = R1 = Me; R = Me, R1 =  
Et; RR1 = (CH2)3, (CH2)4] by cyclodehydration reaction of substituted thiourea  
derivs. is described. The starting thiourea derivs. were obtained by the  
reaction of 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl isothiocyanate with  $\alpha$ -  
oxoammonium chlorides.

IT 81812-56-8P 81812-57-9P 81812-58-0P

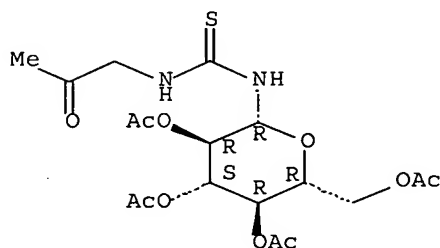
81812-59-1P 81812-60-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 81812-56-8 HCAPLUS

CN Thiourea, N-(2-oxopropyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-  
glucopyranosyl)- (9CI) (CA INDEX NAME)

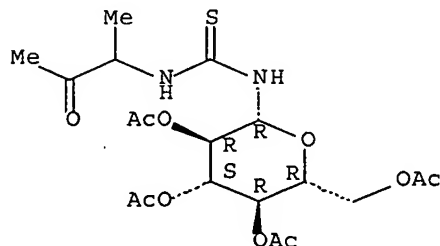
Absolute stereochemistry.



RN 81812-57-9 HCAPLUS

CN Thiourea, N-(1-methyl-2-oxopropyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-  
glucopyranosyl)- (9CI) (CA INDEX NAME)

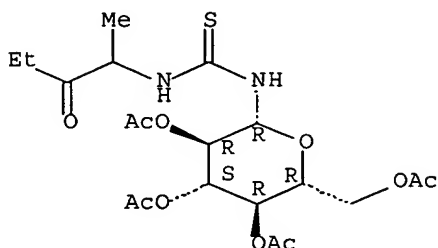
Absolute stereochemistry.



RN 81812-58-0 HCAPLUS

CN Thiourea, N-(1-methyl-2-oxobutyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

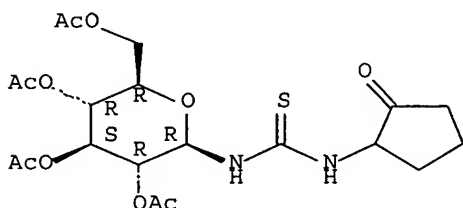
Absolute stereochemistry.



RN 81812-59-1 HCAPLUS

CN Thiourea, N-(2-oxocyclopentyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

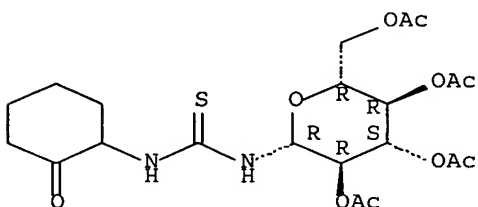
Absolute stereochemistry.



RN 81812-60-4 HCAPLUS

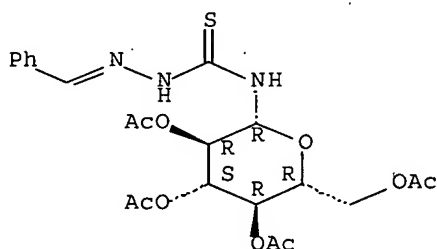
CN Thiourea, N-(2-oxocyclohexyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



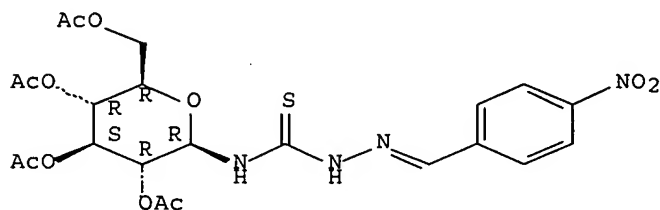
DOCUMENT NUMBER: 97:6703  
 TITLE: Synthesis of N-glucosyl derivatives of  
 5-amino-1,2,3-thiadiazole and 5-substituted  
 2-amino-1,3,4-thiadiazole  
 AUTHOR(S): Valentiny, M.; Martvon, A.  
 CORPORATE SOURCE: Dep. Org. Chem., Slovak Tech. Univ., Bratislava, 812  
 37, Czech.  
 SOURCE: Chemicke Zvesti (1982), 36(1), 111-16  
 CODEN: CHZVAN; ISSN: 0366-6352  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Oxidative cyclization of 4-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)thiosemicarbazones with FeCl<sub>3</sub> afforded the corresponding N-glucosides having 2-amino-5-aryl-1,3,4-thiadiazoles as aglycons. The cycloaddn. of 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl isothiocyanate with CH<sub>2</sub>N<sub>2</sub> gave 5-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosylamino)-1,2,3-thiadiazole.  
 IT 81812-49-9 81812-50-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (oxidative cyclization of)  
 RN 81812-49-9 HCAPLUS  
 CN Hydrazinecarbothioamide, 2-(phenylmethylene)-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



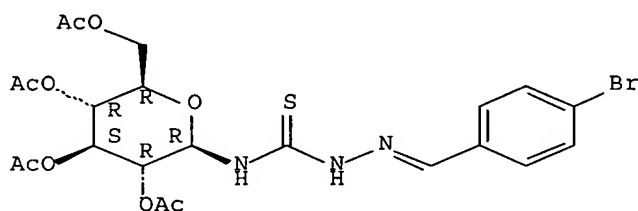
RN 81812-50-2 HCAPLUS  
 CN Hydrazinecarbothioamide, 2-[(4-nitrophenyl)methylene]-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



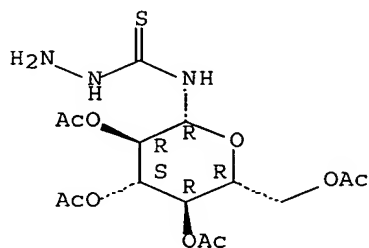
IT 81812-48-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and oxidative cyclization of)  
 RN 81812-48-8 HCAPLUS  
 CN Hydrazinecarbothioamide, 2-[(4-bromophenyl)methylene]-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



IT 63128-98-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with benzaldehydes)  
 RN 63128-98-3 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 232 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1983:53822 HCAPLUS' Full-text  
 DOCUMENT NUMBER: 98:53822  
 TITLE: Synthesis and biological activity of some  
 pyridylthioureas and pyridopyrimidinethiones  
 AUTHOR(S): Dave, C. G.; Shah, P. R.; Desai, V. B.; Srinivasan, S.  
 CORPORATE SOURCE: Dep. Chem., St. Xavier's Coll., Ahmedabad, 380 009,  
 India  
 SOURCE: Indian Journal of Pharmaceutical Sciences (  
1982), 44(4), 83-5  
 CODEN: IJSIDW; ISSN: 0250-474X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 98:53822

ED Entered STN: 12 May 1984

AE The aminopyridinecarboxylate I was treated with RNCS (R = Ph, Bu, PhCH<sub>2</sub>; o-MeC<sub>6</sub>H<sub>4</sub>, m-MeC<sub>6</sub>H<sub>4</sub>, p-MeC<sub>6</sub>H<sub>4</sub>, m-ClC<sub>6</sub>H<sub>4</sub>, p-MeOC<sub>6</sub>H<sub>4</sub>, cyclohexyl) to give the thioureas II, which underwent thermal cyclization to give the title compds. III. Several II and III and showed antibacterial activity and III (R = Ph) had antihistaminic activity.

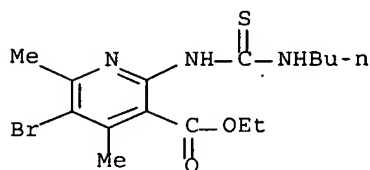
IT 84345-93-7P 84345-95-9P 84345-96-0P

84345-98-2P 84346-00-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

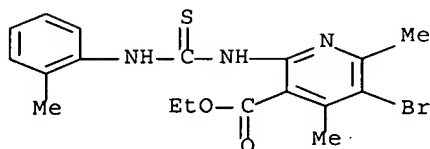
RN 84345-93-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-2-[[[butylamino)thioxomethyl]amino]-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



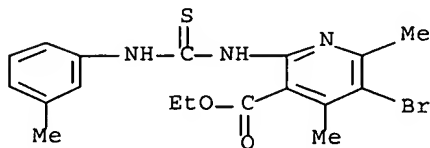
RN 84345-95-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-4,6-dimethyl-2-[[[(2-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



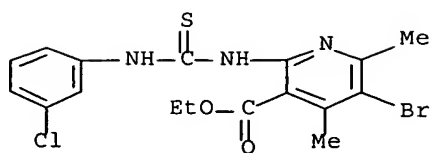
RN 84345-96-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-4,6-dimethyl-2-[[[(3-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



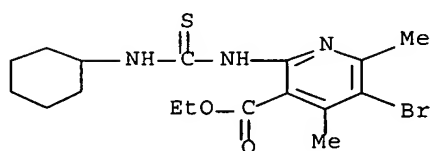
RN 84345-98-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-2-[[[(3-chlorophenyl)amino]thioxomethyl]amino]-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 84346-00-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-2-[[[(cyclohexylamino)thioxomethyl]amino]-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

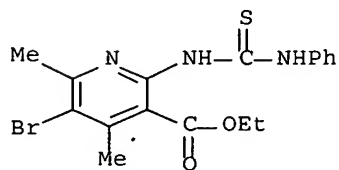


IT 84345-92-6P 84345-94-8P 84345-97-1P  
84345-99-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, cyclization, and bactericidal activity of)

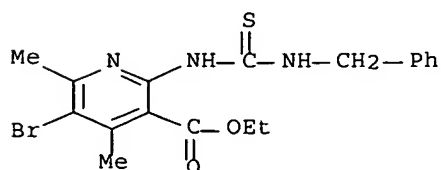
RN 84345-92-6 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-4,6-dimethyl-2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



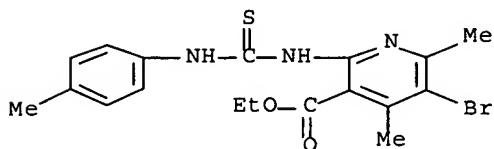
RN 84345-94-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-4,6-dimethyl-2-[[[(phenylmethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



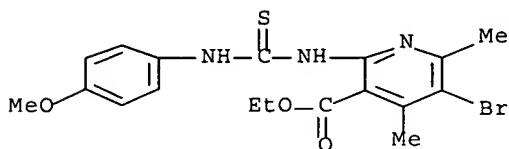
RN 84345-97-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-4,6-dimethyl-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 84345-99-3 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 233 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:612464 HCAPLUS Full-text

DOCUMENT NUMBER: 99:212464

TITLE: Reaction of aminoguanidine salts with carbethoxyalkyl isothiocyanates

AUTHOR(S): Dobosz, Maria

CORPORATE SOURCE: Inst. Fundam. Chem., Med. Acad., Lublin, Pol.

SOURCE: Annales Universitatis Mariae Curie-Sklodowska, Sectio

AA: Chemia (1982), Volume Date 1980, 35,

63-72

CODEN: AUMCD7; ISSN: 0137-6853

DOCUMENT TYPE: Journal

LANGUAGE: Polish

OTHER SOURCE(S): CASREACT 99:212464

ED Entered STN: 12 May 1984

AB Reaction of aminoguanidine-HCl (I) with carbethoxymethyl isothiocyanate gave a linear adduct, which in alkaline media cyclized to 3-amino-4-(carboxymethyl)-5-mercapto-1,2,4-triazole (II). The reaction of I with  $\beta$ -carbethoxyethyl and  $\beta$ -carbmethoxyethyl isothiocyanates gave thiolactone III. The reaction of I with  $\delta$ -carbethoxypropyl isothiocyanate gave a linear adduct, which on cyclization gave 3-amino-4-( $\delta$ -carbethoxypropyl)-5-mercapto-1,2,4-triazole (IV). Both the linear adduct and IV in alkaline media were converted into 3-amino-4-( $\delta$ -carboxypropyl)-5-mercapto-1,2,4-triazole. The reaction of I with  $\epsilon$ -carbethoxypentyl isothiocyanate gave 3-amino-4- $\epsilon$ -carbethoxypentyl-5-

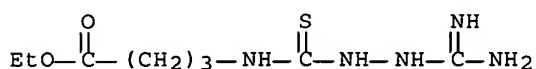
mercapto-1,2,4-triazole, which on alkaline hydrolysis gave 3-amino-4-(ε-cyboxypentyl)-5-mercapto-1,2,4-triazole.

IT 87909-63-5P 87909-73-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 87909-63-5 HCAPLUS

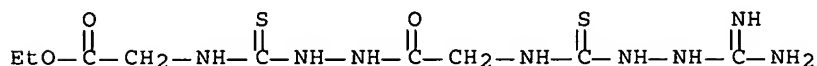
CN Butanoic acid, 4-[[[2-(aminoiminomethyl)hydrazino]thioxomethyl]amino]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 87909-73-7 HCAPLUS

CN 2,3,5,8,9,11-Hexaazatridecan-13-oic acid, 1-amino-1-imino-7-oxo-4,10-dithio-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



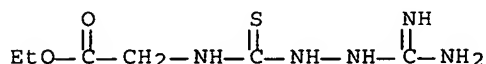
● HCl

IT 87909-56-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and hydrolysis of)

RN 87909-56-6 HCAPLUS

CN Glycine, N-[[2-(aminoiminomethyl)hydrazino]thioxomethyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

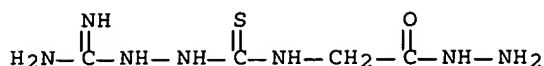
IT 87909-72-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with methoxycarbonylmethyl isocyanate)

RN 87909-72-6 HCAPLUS

CN Glycine, N-[[2-(aminoiminomethyl)hydrazino]thioxomethyl]-, hydrazide, monohydrochloride (9CI) (CA INDEX NAME)





● HCl

L49 ANSWER 234 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:435610 HCAPLUS Full-text

DOCUMENT NUMBER: 97:35610

TITLE: The identification of phosphoseryl residues during the determination of amino acid sequence in phosphoproteins

AUTHOR(S): Annan, W. Douglas; Manson, William; Nimmo, John A.

CORPORATE SOURCE: Hannah Res. Inst., Ayr, KA6 5HL, UK

SOURCE: Analytical Biochemistry (1982), 121(1), 62-8  
CODEN: ANBCA2; ISSN: 0003-2697

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

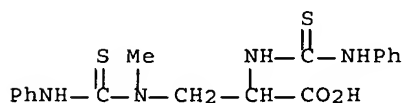
AB A procedure is described whereby phosphorylated seryl residues may be unequivocally identified during the sequential degradation of a polypeptide chain by the Edman technique. The phosphoseryl residue, Ser(P), was first converted by treatment with MeNH<sub>2</sub> in dilute alkali to a β-methylaminoalanyl residue which was split from the polypeptide by the degradative procedure as the derived phenylthiohydantoin. This was identified by high-performance liquid chromatog. The procedure was highly effective when the Ser(P) occupied an isolated position in a polypeptide chain but was less so when grouped consecutively with other Ser(P).

IT 82273-19-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 82273-19-6 HCAPLUS

CN Alanine, 3-[methyl[(phenylamino)thioxomethyl]amino]-N-[(phenylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



IT 82273-20-9P

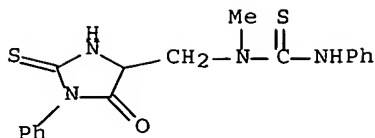
RL: PREP (Preparation)

(preparation of, phosphoserine determination in phosphoproteins in relation

to)

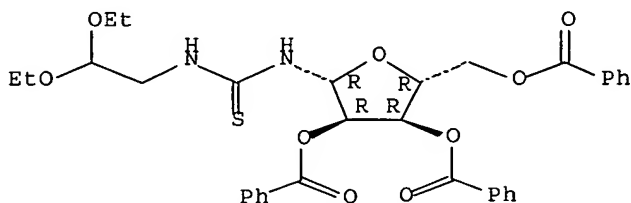
RN 82273-20-9 HCAPLUS

CN Thiourea, N-methyl-N-[(5-oxo-1-phenyl-2-thioxo-4-imidazolidinyl)methyl]-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 235 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1982:200085 HCAPLUS Full-text  
 DOCUMENT NUMBER: 96:200085  
 TITLE: Synthesis of an imidazole-2-thione nucleoside  
 AUTHOR(S): Cech, Dieter; Koenig, Joachim; Meinelt, Barbara  
 CORPORATE SOURCE: Sekt. Chem., Humboldt-Univ. Berlin, Berlin, DDR-1040, Ger. Dem. Rep.  
 SOURCE: Zeitschrift fuer Chemie (1982), 22(2), 58-9  
 CODEN: ZECEAL; ISSN: 0044-2402  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 ED Entered STN: 12 May 1984  
 AB Nucleoside I was prepared in 29% yield by acid hydrolysis of II [R = NHCSNHCH<sub>2</sub>CH(OEt)<sub>2</sub>] which was obtained in 77% yield by treating II (R = NCS) with H<sub>2</sub>NCH<sub>2</sub>CH(OEt)<sub>2</sub>.  
 IT 81742-98-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 81742-98-5 HCAPLUS  
 CN Thiourea, N-(2,2-diethoxyethyl)-N'-(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 236 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:406581 HCAPLUS Full-text  
 DOCUMENT NUMBER: 95:6581  
 TITLE: Synthesis and reactions of deuterated 2-(alkylimino)-3-nitrosooxazolidines, 3-alkyl-1-(2-hydroxyethyl)-1-nitrosooureas, and related compounds as possible intermediates in the aqueous decomposition of 3-alkyl-1-(2-chloroethyl)-1-nitrosooureas  
 AUTHOR(S): Lown, J. William; Chauhan, Shive M. S.  
 CORPORATE SOURCE: Dep. Chem., Univ. Alberta, Edmonton, AB, T6G 2G2, Can.

SOURCE: Journal of Organic Chemistry (1981), 46(12), 2479-89  
 CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 95:6581

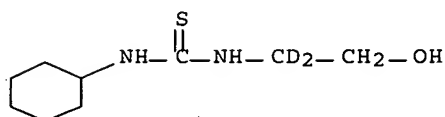
ED Entered STN: 12 May 1984

AB Decomposition of C<sub>6</sub>H<sub>11</sub>NHCON(NO)CO<sub>2</sub>CH<sub>2</sub>Cl (I, C<sub>6</sub>H<sub>11</sub> = cyclohexyl) in pH 7.2 phosphate buffer or of oxazolidine II or C<sub>6</sub>H<sub>11</sub>NHCON(NO)CD<sub>2</sub>CH<sub>2</sub>OH (III) with the addition of chloride ion gives the same spectrum of products, including D-free MeCHO, a mixture of the two deuterio-2-chloroethanols, 2-hydroxy-2,2-dideuterioethyl cyclohexylcarbamates, and vinyl chloride containing one D, i.e., opposite of the results obtained in the corresponding reaction of ClCH<sub>2</sub>CO<sub>2</sub>NHCON(NO)CO<sub>2</sub>CH<sub>2</sub>Cl. The products were identified and the number and position of the D labels determined by CGMS. The results are interpreted in terms of two decomposition pathways for ClCH<sub>2</sub>CH<sub>2</sub>N(NO)CONHC<sub>6</sub>H<sub>11</sub> (IV). The first decomposition pathway operating for IV is via an intermediate 2-chloroethanediazohydroxide or the equivalent 2-chloroethyl cation. The second pathway may involve reversible conversion of I to II and then ring opening of the latter to III. Independent decomposition of III provides evidence for its conversion to HON:NCD<sub>2</sub>CH<sub>2</sub>OH (V) leading to the isolated carbamates C<sub>6</sub>H<sub>11</sub>NHCO<sub>2</sub>CH<sub>2</sub>CD<sub>2</sub>OH and C<sub>6</sub>H<sub>11</sub>NHCO<sub>2</sub>CO<sub>2</sub>CH<sub>2</sub>OH. The intermediacy of species V may account for the formation of 2-hydroxyethylated nucleosides observed when (2-chloroethyl)nitrosoureas react with DNA. An alternative ring-opening reaction of II leads to C<sub>6</sub>H<sub>11</sub>NHCO<sub>2</sub>CN<sub>2</sub>CD<sub>2</sub>N:NOH, elimination of which and attack by halide ion may account for the vinyl halide species formed.

IT 77081-25-5P 77081-32-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, with iodomethane and base)

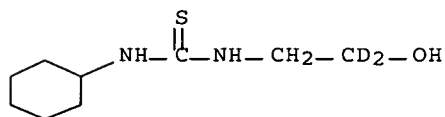
RN 77081-25-5 HCAPLUS

CN Thiourea, N-cyclohexyl-N'-(2-hydroxyethyl-1,1-d<sub>2</sub>)- (9CI) (CA INDEX NAME)



RN 77081-32-4 HCAPLUS

CN Thiourea, N-cyclohexyl-N'-(2-hydroxyethyl-2,2-d<sub>2</sub>)- (9CI) (CA INDEX NAME)



L49 ANSWER 237 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:52610 HCAPLUS Full-text

DOCUMENT NUMBER: 96:52610

TITLE: Synthesis of nucleoside analogs by

addition-cyclization reaction of 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl isothiocyanate

AUTHOR(S): Valentiny, Marian; Martvon, Augustin; Kovac, Pavol  
 CORPORATE SOURCE: Dep. Org. Chem., Slovak Inst. Technol., Bratislava, 880 37, Czech.  
 SOURCE: Collection of Czechoslovak Chemical Communications (1981), 46(9), 2197-202  
 CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984

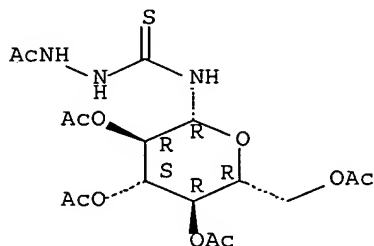
AB Nucleoside analogs I (R = 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl throughout; R1 = H, Me, Et, Pr, OEt) were prepared by treating RNCS with H2NNHCOR1, and subsequent thermal cyclization. Analogous base-catalyzed cyclization gave deacetylated products. II was prepared by treating RNCS with thioglycolic acid.

IT 73556-24-8P 80241-04-9P 80241-05-0P  
80241-06-1P 80241-07-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 73556-24-8 HCAPLUS

CN Acetic acid, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

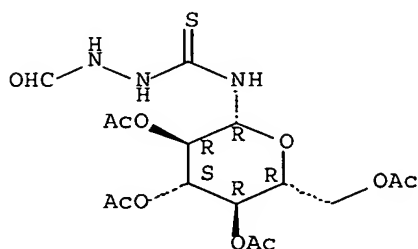
Absolute stereochemistry.



RN 80241-04-9 HCAPLUS

CN Hydrazinecarbothioamide, 2-formyl-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

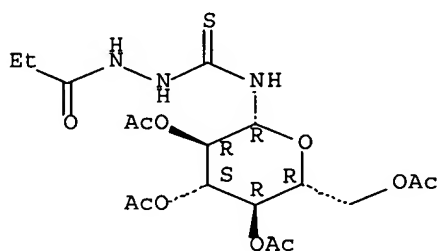
Absolute stereochemistry.



RN 80241-05-0 HCAPLUS

CN Propanoic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

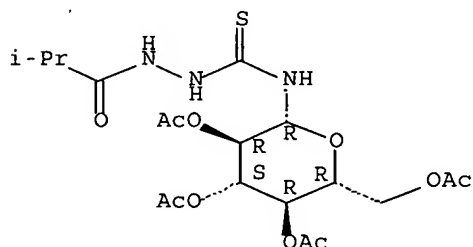
Absolute stereochemistry.



RN 80241-06-1 HCAPLUS

CN Propanoic acid, 2-methyl-, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

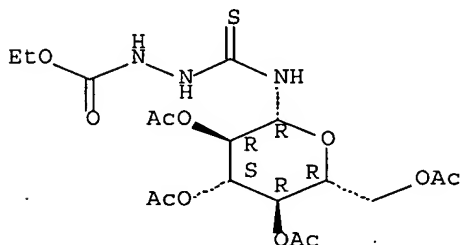
Absolute stereochemistry.



RN 80241-07-2 HCAPLUS

CN Hydrazinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 238 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1982:20410 HCAPLUS Full-text  
 DOCUMENT NUMBER: 96:20410

TITLE: Studies on heterocyclic compounds. XL. Studies on nucleoside analogs. XXI. A convenient synthesis of 1,2,4-triazole-5-thione glycosides

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sato, Osamu

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1981), 29(8), 2188-92

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 96:20410

ED Entered STN: 12 May 1984

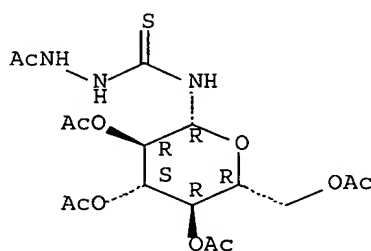
AB Triazolethione nucleosides I [R = 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl (Q), 2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl, 2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl, R1 = Ph; R = Q, R1 = Me, 4-pyridyl] were prepared by treating RNCS with H2NNHCOR1 and cyclizing the resultant RNHCSNHNHCOR1 by Ac2O-H3PO4. Attempts to cyclize by Ac2O failed. Cyclization of RNHCSNHNHR2 (R = Q, R2 = Ph, 2-pyridyl) with COCl2 gave thiadiazolones II (R and R2 same).

IT 73556-24-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, thiadiazole derivative from)

RN 73556-24-8 HCAPLUS

CN Acetic acid, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

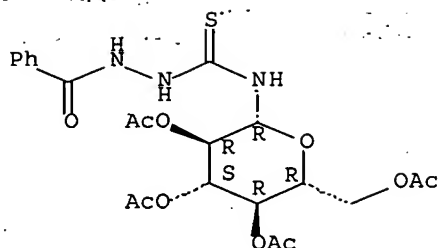


IT 69435-06-9P 73556-27-1P 79857-62-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, triazolethione derivative from)

RN 69435-06-9 HCAPLUS

CN Benzoic acid, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

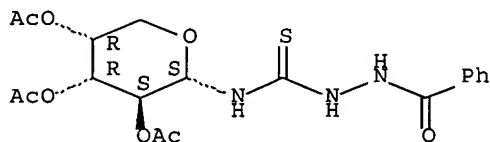
Absolute stereochemistry.



RN 73556-27-1 HCAPLUS

CN Benzoic acid, 2-[thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

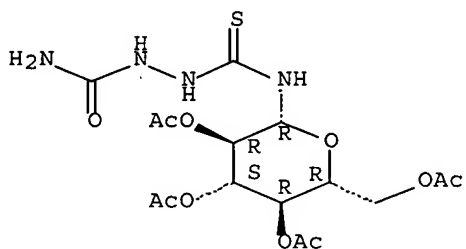
Absolute stereochemistry.



RN 79857-62-8 HCAPLUS

CN Hydrazinecarboxamide, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 68977-93-5P 69435-07-0P

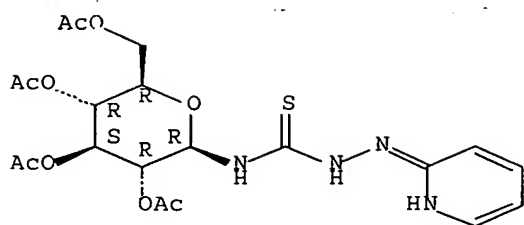
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with phosgene, thiadiazolone  
derivative from)

RN 68977-93-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

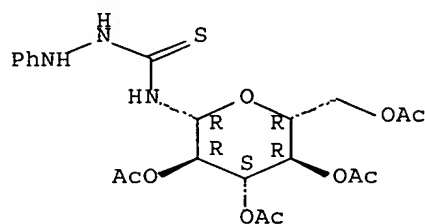
Double bond geometry unknown.



RN 69435-07-0 HCAPLUS

CN Hydrazinecarbothioamide, 2-phenyl-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



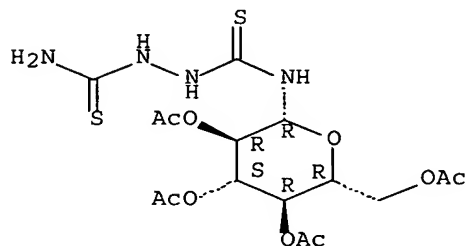
IT 18604-48-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and methylation of)

RN 18604-48-3 HCAPLUS

CN 1,2-Hydrazinedicarbothioamide, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 51587-40-7P 73556-25-9P 79857-56-0P  
79857-57-1P 79857-58-2P 79857-59-3P  
79857-60-6P 79857-61-7P 79857-68-4P  
79897-21-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

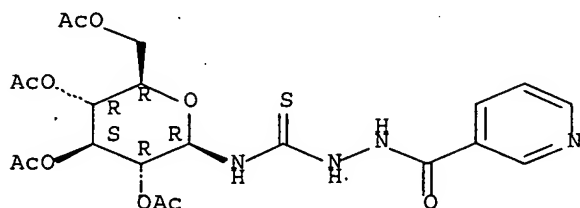
RN 51587-40-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[[2,3,4,6-tetra-O-acetyl- $\beta$ -D-



glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

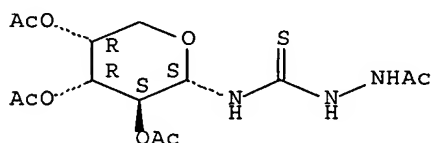
Absolute stereochemistry.



RN 73556-25-9 HCAPLUS

CN Acetic acid, 2-[thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

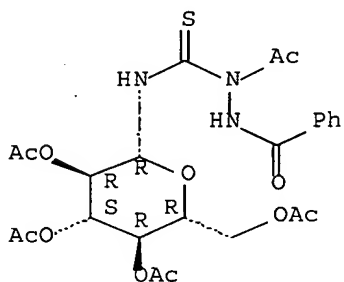
Absolute stereochemistry.



RN 79857-56-0 HCAPLUS

CN Benzoic acid, 2-acetyl-2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

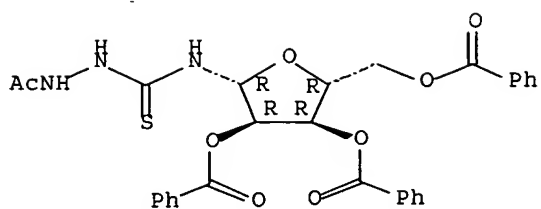
Absolute stereochemistry.



RN 79857-57-1 HCAPLUS

CN Acetic acid, 2-[thioxo[(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

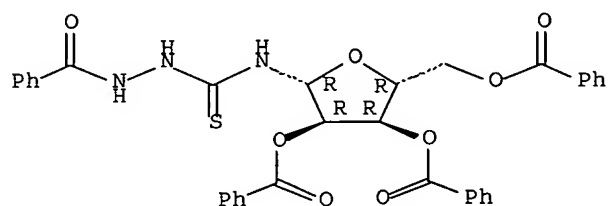
Absolute stereochemistry.



RN 79857-58-2 HCAPLUS

CN Benzoic acid, 2-[thioxo[(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

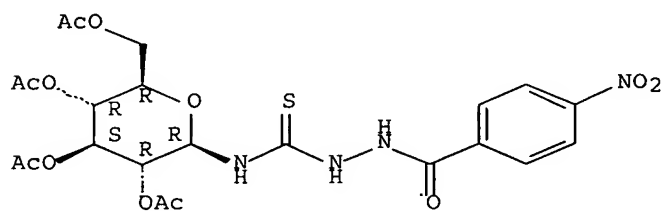
Absolute stereochemistry.



RN 79857-59-3 HCAPLUS

CN Benzoic acid, 4-nitro-, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

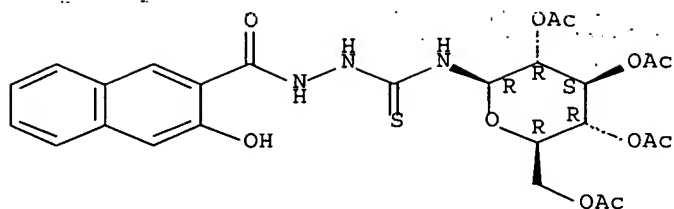
Absolute stereochemistry.



RN 79857-60-6 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 3-hydroxy-, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

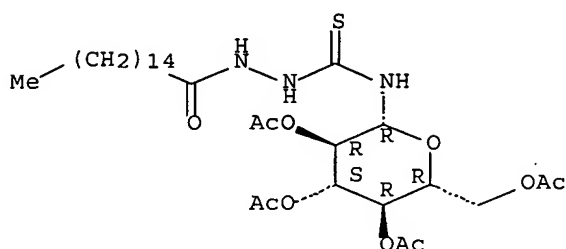
Absolute stereochemistry.



RN 79857-61-7 HCAPLUS

CN Hexadecanoic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

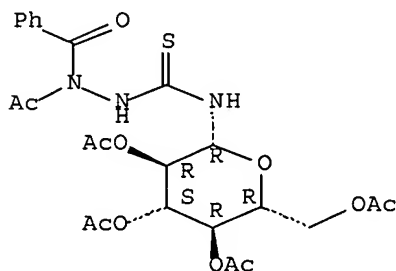
Absolute stereochemistry.



RN 79857-68-4 HCAPLUS

CN Benzoic acid, 1-acetyl-2-[[[(2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

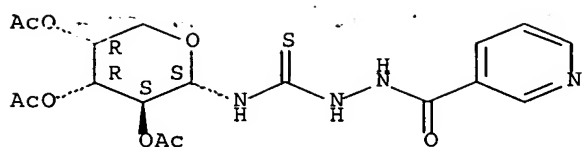
Absolute stereochemistry.



RN 79897-21-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[thioxo[(2,3,4-tri-O-acetyl-alpha-D-arabinopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 239 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:604338 HCAPLUS Full-text

DOCUMENT NUMBER: 95:204338

TITLE: Synthesis of 2-phenylaminoadenosine from imidazole nucleosides

AUTHOR(S): Omura, Kiyoshi; Marumoto, Ryuji; Furukawa, Yoshiyasu

CORPORATE SOURCE: Cent. Res. Lab., Takeda Chem. Ind. Ltd., Osaka, 532, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1981), 29(7), 1870-5

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB The reaction of imidazole I with PhNCS gave 7-imino-5-phenylamino-3- ( $\beta$ -D-ribofuranosyl)imidazo[4,5-d][1,3]-thiazine, which, on alkaline treatment, rearranged to 6-mercapto-2-phenylamino-9-( $\beta$ -D-ribofuranosyl)purine (II). On methylation, II gave the 6-methylmercapto derivative, which was converted to title adenosine (III) by treatment with  $\text{NH}_3$ . I reacted with PhNHCN in methanolic ammonia, giving III and 2-aminoadenosine as a by-product. Et 5-amino-1-( $\beta$ -D-ribofuranosyl)-4-carboximidate was directly obtained by treatment of 5-amino-1-(2,3,5-tri-O-propionyl- $\beta$ -D-ribofuranosyl)imidazole-4-carboxamide with Meerwein's reagent followed by deacylation, and this gave III by reaction with PhNHCN.

IT 79715-22-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

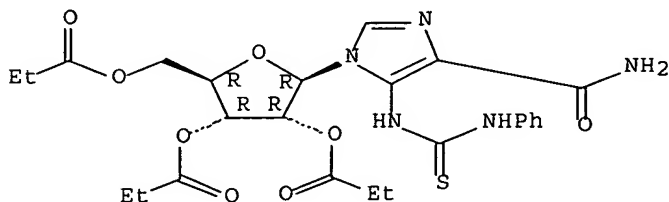
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, mercaptinosine derivative from)

RN 79715-22-3 HCAPLUS

CN 1H-Imidazole-4-carboxamide, 5-[[ (phenylamino)thioxomethyl]amino]-1-[2,3,5-tris-O-(1-oxopropyl)- $\beta$ -D-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 240 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:587574 HCAPLUS Full-text

DOCUMENT NUMBER: 95:187574

TITLE: Studies on heterocyclic compounds. XLF. Studies on nucleoside analogs. XXIII. Reactions of glycosyl isothiocyanates: syntheses of glycosylamino-1,2,3-thiadiazoles and 1,2,4,6-thiatriazine-S-oxide glycosides

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sato, Osamu

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1981), 29(7), 1843-7

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

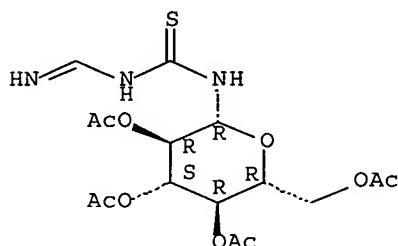
AB The reactions of RNCS (I; R = 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl, 2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl, 2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl) with R<sub>1</sub>CHN<sub>2</sub> (R<sub>1</sub> = H, CO<sub>2</sub>Et) gave the corresponding glycosylamino-thiadiazoles (II). Attempted ring transformation of II (R<sub>1</sub> = H) under thermal or basic conditions failed. Similar treatment of D-gluconyl isothiocyanate with CH<sub>2</sub>N<sub>2</sub> afforded D-gluco-pent-1-yloxathiazolone in good yield. The reactions of I with acetoamidine or formamidine hydrochloride under basic conditions gave the corresponding RNHCSN:CR<sub>1</sub>NH<sub>2</sub>, which on subsequent treatment with SOCl<sub>2</sub> under basic conditions afforded the corresponding thiatriazine-S-oxide glycosides III in good yields.

IT 73556-39-5P 77049-66-2P 77049-67-3P  
77049-68-4P 77061-89-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, with thionyl chloride)

RN 73556-39-5 HCAPLUS

CN Thiourea, (aminomethylene) (2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl) - (9CI) (CA INDEX NAME)

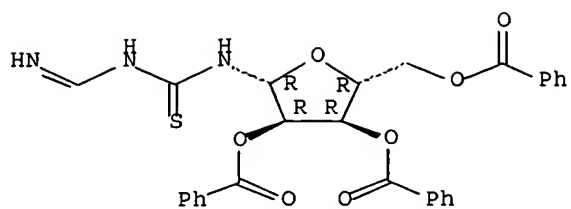
Absolute stereochemistry.



RN 77049-66-2 HCAPLUS

CN Thiourea, N-(iminomethyl)-N'-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl) - (9CI) (CA INDEX NAME)

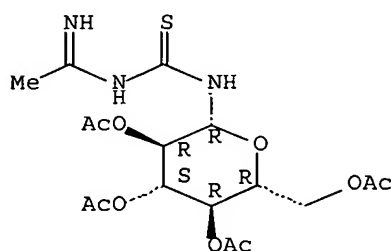
Absolute stereochemistry.



RN 77049-67-3 HCAPLUS

CN Ethanimidamide, N-[[2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

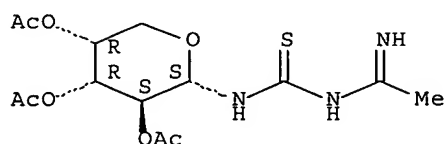
Absolute stereochemistry.



RN 77049-68-4 HCAPLUS

CN Ethanimidamide, N-[thioxo[(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)amino]methyl]- (9CI) (CA INDEX NAME)

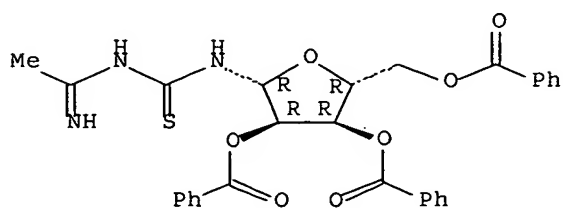
Absolute stereochemistry.



RN 77061-89-3 HCAPLUS

CN Ethanimidamide, N-[thioxo[(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)amino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 241 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:587573 HCAPLUS Full-text  
 DOCUMENT NUMBER: 95:187573  
 TITLE: Studies on heterocyclic compounds. XXXIX.  
 C-nucleoside synthesis. Studies on nucleoside  
 analogs. XX. Syntheses of 1,2,4-triazole and  
 1,3,5-triazine glycosides  
 AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sato, Osamu  
 CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1981),  
 29(7), 1838-42  
 CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 12 May 1984

AB Eight nucleosides I (R = 2,3,4,6-tetra-o-acetyl-D-glucopyranosyl (Q), 2,3,4-tri-o-acetyl-D-arabinopyranosyl (Q1), 2,3,5-tri-O-benzoyl-D-ribofuranosyl; R1 = H, Me, SMe, NH2) and 4 nucleosides II (R = Q, Q1; R1 = SMe, NH2, OMe) were prepared by cyclization of RNHCSN:CR1NH2 (III) by N-bromosuccinimide and with HC(OEt)3, resp. III were obtained by the reaction of RNCS with NH:CR1NH2.HCl in the presence of Et3N.

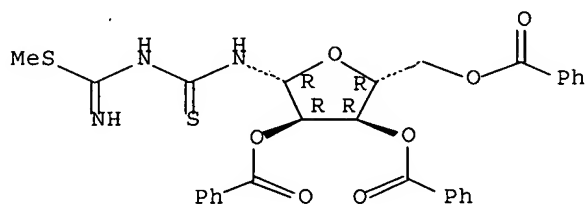
IT 77049-63-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, by N-succinimide, triazole  
 nucleoside from)

RN 77049-63-9 HCAPLUS

CN Carbamimidothioic acid, [thioxo[(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



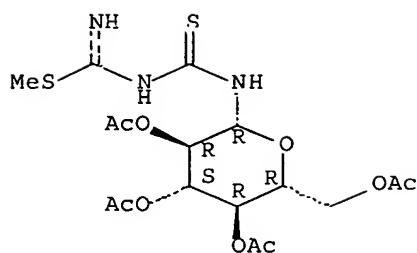
IT 69435-12-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, triazole or triazine nucleoside  
 from)

RN 69435-12-7 HCAPLUS

CN Carbamimidothioic acid, [[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 77049-60-6P 77049-64-0P 77049-65-1P

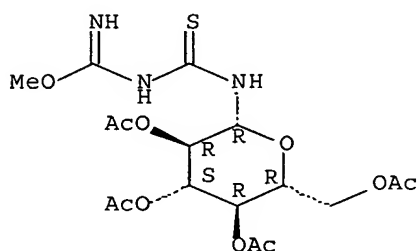
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with tri-Et orthoformate,  
triazine nucleoside from)

RN 77049-60-6 HCAPLUS

CN Carbamimidic acid, [[[2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)

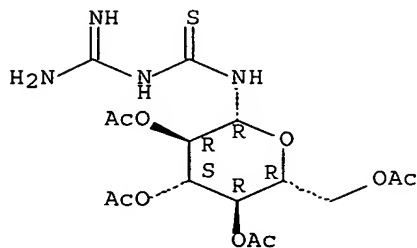
Absolute stereochemistry.



RN 77049-64-0 HCAPLUS

CN Thiourea, N-(aminoiminomethyl)-N'-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

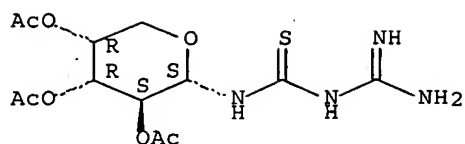


RN 77049-65-1 HCAPLUS

CN Thiourea, N-(aminoiminomethyl)-N'-(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





IT 73556-39-5P 73556-40-8P 77049-61-7P

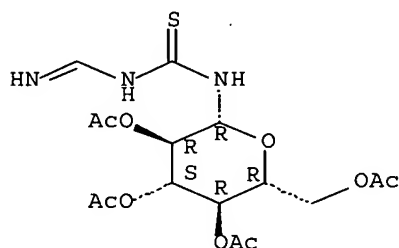
77049-67-3P 77049-68-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 73556-39-5 HCAPLUS

CN Thiourea, (aminomethylene) (2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)-  
(9CI) (CA INDEX NAME)

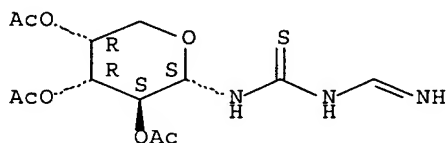
Absolute stereochemistry.



RN 73556-40-8 HCAPLUS

CN Thiourea, (aminomethylene) (2,3,4-tri-O-acetyl-alpha-D-arabinopyranosyl)-  
(9CI) (CA INDEX NAME)

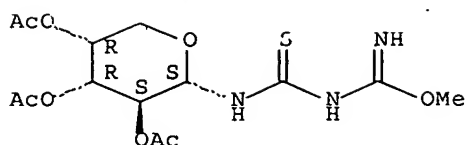
Absolute stereochemistry.



RN 77049-61-7 HCAPLUS

CN Carbamimidic acid, [thioxo[(2,3,4-tri-O-acetyl-alpha-D-arabinopyranosyl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

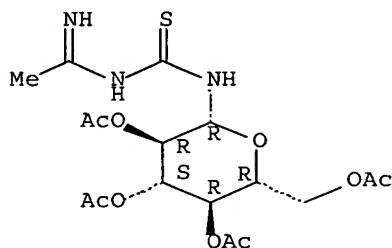
Absolute stereochemistry.



RN 77049-67-3 HCAPLUS

CN Ethanimidamide, N-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)

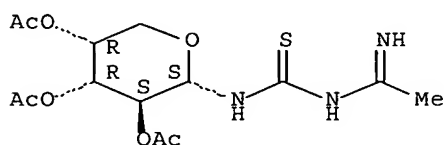
Absolute stereochemistry.



RN 77049-68-4 HCAPLUS

CN Ethanimidamide, N-[thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 242 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:604331 HCAPLUS Full-text

DOCUMENT NUMBER: 95:204331

TITLE: Studies on heterocyclic compounds. XXXVIII. C-nucleoside synthesis. Studies on nucleoside analogs. XIX. Reaction of D-gluconyl isothiocyanate with diamines or enamines

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Takeda, Kazuyoshi  
CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan  
SOURCE: Chemical & Pharmaceutical Bulletin (1981), 29(7), 1832-7

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

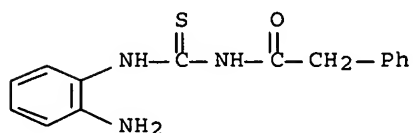
AB Cyclocondensation of gluconyl isothiocyanate I with ortho-diamines, such as  $\text{C}_6\text{H}_4(\text{NH}_2)_2$ , 5,6-diamino-1,3-dimethyl-2,4-pyrimidinedione and 4,5-diaminopyrimidine, gave 70-92% corresponding gluconyltriazepinethiones, e.g., II (92%). A similar reaction of I with  $\text{H}_2\text{NCMe:CHCO}_2\text{Et}$  and 6-amino-1,3-dimethyluracil gave 98% III and 96% IV, resp.

IT 79715-37-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 79715-37-0 HCAPLUS

CN Benzeneacetamide, N-[[ (2-aminophenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



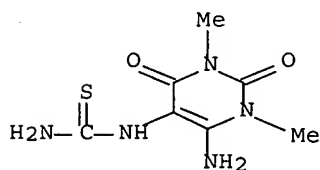
IT 68074-62-4P 79715-38-1P 79715-39-2P

79715-40-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

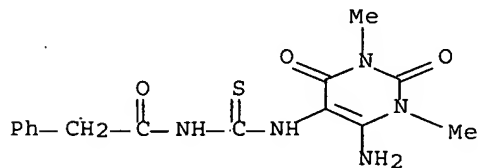
RN 68074-62-4 HCAPLUS

CN Thiourea, (6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 79715-38-1 HCAPLUS

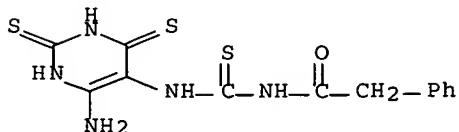
CN Benzeneacetamide, N-[[ (6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



RN 79715-39-2 HCAPLUS

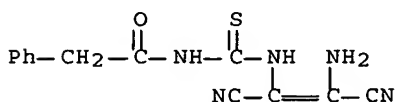
CN Benzeneacetamide, N-[[ (6-amino-1,2,3,4-tetrahydro-2,4-dithio-5-

pyrimidinyl)amino]thioxomethyl] - (9CI) (CA INDEX NAME)



RN 79715-40-5 HCAPLUS

CN Benzeneacetamide, N-[[2-amino-1,2-dicyanoethenyl)amino]thioxomethyl] - (9CI) (CA INDEX NAME)



L49 ANSWER 243 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:587189 HCAPLUS Full-text

DOCUMENT NUMBER: 95:187189

TITLE: Studies on fused-ring mesoionic thiazolo[3,2-a]thieno[2,3-d]pyrimidine systems

AUTHOR(S): Talukdar, P. B.; Sengupta, S. K.; Datta, A. K.

CORPORATE SOURCE: Res. Dev. Div. Pharm., East India Pharm. Works Ltd., Calcutta, 700 061, India

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1981), 20B(7), 538-42

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 95:187189

ED Entered STN: 12 May 1984

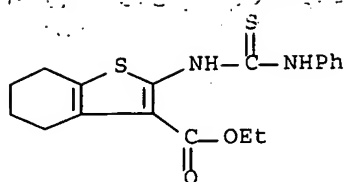
AB The mercaptothienopyrimidinones I [R = R1 = Ph, R = Me, R1 = Ph, R2R3 = (CH2)4, R2 = R3 = Me] underwent cyclodehydration on reactions with Ac2O-pyridine to give the mesoionic compds. II. I [R = Ph, R1 = H; R2R3 = (CH2)4, R2 = R3 = Me] on similar treatment gave dark blue compds. probably formed through dimerization of II. Similar treatment of I [R = Me, R1 = H; R2R3 = (CH2)4, R2 = R3 = Me] gave II (R = Me, R1 = Ac).

IT 42076-12-0P 51486-13-6P 59898-39-4P  
59898-45-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

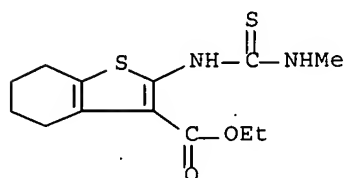
RN 42076-12-0 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
[[2-aminophenylamino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



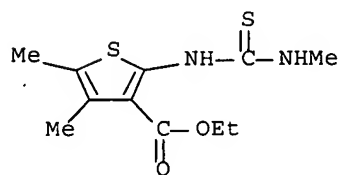
RN 51486-13-6 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
[[[(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



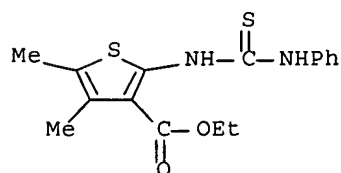
RN 59898-39-4 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(methylamino)thioxomethyl]ami  
no]-, ethyl ester (9CI) (CA INDEX NAME)

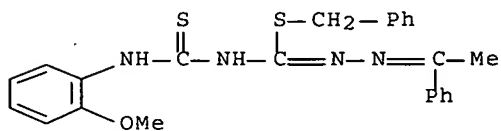


RN 59898-45-2 HCAPLUS

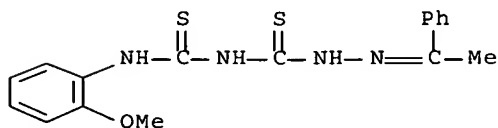
CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(phenylamino)thioxomethyl]ami  
no]-, ethyl ester (9CI) (CA INDEX NAME)



DOCUMENT NUMBER: 95:132768  
 TITLE: Synthesis of 3-arylimino-5-( $\alpha$ -methylbenzylidenehydrazido)-1,2,4-dithiazolidines  
 AUTHOR(S): Rai, S. K.; Srivastava, P. K.; Verma, V. K.  
 CORPORATE SOURCE: Dep. Chem., Ban ras Hindu Univ., Varanasi, 221 005, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1981), 20B(6), 521-3  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 95:132768  
 ED Entered STN: 12 May 1984  
 AB Treating PhMeC:NN:C(SBz)NHC(S)NHC6H4R (R = H, 2-Me, 4-Me, 2-Cl, 4-Cl, 2-MeO, 4-MeO), obtained from PhMeC:NNHC(S)NH2, with Br in CHCl3 gave the title compds. (I).  
 IT 78938-26-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and oxidative debenzoylation and cyclization of)  
 RN 78938-26-8 HCAPLUS  
 CN Hydrazinecarboximidothioic acid, N-[[ (2-methoxyphenyl) amino] thioxomethyl] - 2-(1-phenylethylidene)-, phenylmethyl ester (9CI) (CA INDEX NAME)



IT 78938-34-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and oxidation of)  
 RN 78938-34-8 HCAPLUS  
 CN Hydrazinecarbothioamide, N-[[ (2-methoxyphenyl) amino] thioxomethyl] - 2-(1-phenylethylidene)- (9CI) (CA INDEX NAME)



L49 ANSWER 245 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1982:143239 HCAPLUS Full-text  
 DOCUMENT NUMBER: 96:143239  
 TITLE: Studies on heterocyclic compounds. Part XLII. Studies on nucleoside analogs. XXIII. A facile synthesis of nucleoside analogs containing thioureylene group

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sato, Osamu  
CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan  
SOURCE: Journal of Carbohydrates, Nucleosides, Nucleotides (1981), 8(5), 437-43  
CODEN: JCNNAF; ISSN: 0094-0585

DOCUMENT TYPE: Journal  
LANGUAGE: English

ED Entered STN: 12 May 1984

AB Reaction of three glycosyl isothiocyanates with  $\text{Cl}(\text{CH}_2)_n\text{NH}_2\cdot\text{HCl}$  ( $n = 2, 3$ ) under basic conditions gave glycosylimidazolidine-2-thiones and glycosylhexahydropyrimidine-2-thiones, resp., in excellent yields, e.g., 1-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)imidazolidine-2-thione and 1-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)hexahydropyrimidine-2-thione. Reaction of the glycosyl isothiocyanates with  $\text{HO}(\text{CH}_2)_2\text{NH}_2$  gave N-glycosyl-N'-(hydroxyethyl)thioureas, which on treatment with  $\text{SOCl}_2$  cyclized to 2-glycosyliminothiazolidines.

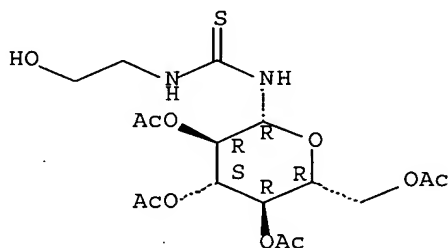
IT 77049-56-0P 77049-57-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 77049-56-0 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

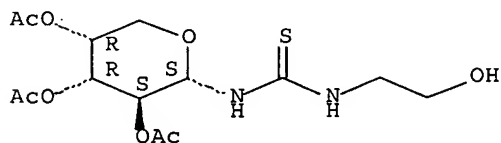
Absolute stereochemistry.



RN 77049-57-1 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 246 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

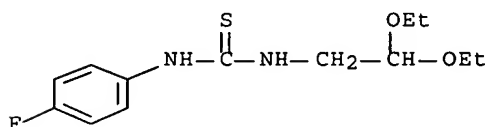
ACCESSION NUMBER: 1982:142149 HCAPLUS Full-text

DOCUMENT NUMBER: 96:142149

TITLE: Studies on the azole series. Part 101. Determination

by fluorine-19 NMR spectroscopy of the  $\sigma_I$  and  $\sigma_{OR}$  parameters of N-substituted azoles

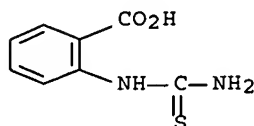
AUTHOR(S): Elguero, Jose; Estopa, Carmen; Ilavsky, Dusan  
 CORPORATE SOURCE: Lab. Chim. Mol., Univ. d'Aix-Marseille III, Marseille, F-13397/4, Fr.  
 SOURCE: Journal of Chemical Research, Synopses (1981), (12), 364-5  
 CODEN: JRPSDC; ISSN: 0308-2342  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English/French  
 ED Entered STN: 12 May 1984  
 AB N-(m- And p-Fluorophenyl)-substituted heterocyclic compds., including pyrroles and triazoles, were prepared and their  $^{19}F$  NMR were observed. The  $^{19}F$  chemical shifts were used to calculate the  $\sigma_I$  and  $\sigma_{OR}$  substituent consts. using equations derived empirically from substituted fluorobenzenes with known substituent consts.  
 IT 81329-45-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 81329-45-5 HCAPLUS  
 CN Thiourea, N-(2,2-diethoxyethyl)-N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



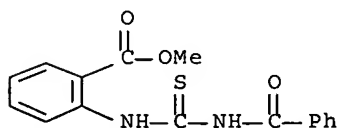
L49 ANSWER 247 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:208026 HCAPLUS Full-text  
 DOCUMENT NUMBER: 94:208026  
 TITLE: Reactions of N-benzoyl isothiocyanate with anthranilic acid and methyl anthranilate  
 AUTHOR(S): Kavalek, Jaromir; Kotyk, Milan; El Bahaie, Said; Sterba, Vojteslav  
 CORPORATE SOURCE: Org. Chem. Dep., Inst. Chem. Technol., Pardubice, 532 10, Czech.  
 SOURCE: Collection of Czechoslovak Chemical Communications (1981), 46(1), 246-55  
 CODEN: CCCCAK; ISSN: 0366-547X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Reaction of o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>R (R = H, Me) with Bz NCS gave the thioureas I (same R), which cyclized to the quinazoline derivative II. The rate-limiting step in the base-catalyzed cyclization of I (R = H) is the initial solvolysis of the Bz group, whereas with I (R = Me) it is cyclization, followed by rapid cleavage of the Bz group. Dissociation consts. for the intermediates and products were determined  
 IT 33942-49-3  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (cyclization of, kinetics of)



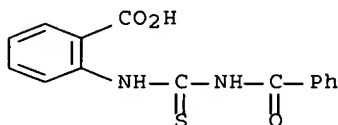
RN 33942-49-3 HCAPLUS  
CN Benzoic acid, 2-[(aminothioxomethyl)amino]- (9CI) (CA INDEX NAME)



IT 77711-35-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, dissociation constant and cyclization of)  
RN 77711-35-4 HCAPLUS  
CN Benzoic acid, 2-[[[(benzoylamino)thioxomethyl]amino]-, methyl ester (9CI)  
(CA INDEX NAME)



IT 13277-24-2P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, dissociation constant and reactions of)  
RN 13277-24-2 HCAPLUS  
CN Benzoic acid, 2-[[[(benzoylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



L49 ANSWER 248 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1982:85908 HCAPLUS Full-text  
DOCUMENT NUMBER: 96:85908  
TITLE: Synthetic O-glycosyl nucleoside analogs  
AUTHOR(S): Ogura, Haruo; Furuhata, Fimio; Iwaki, Kazuo;  
Takahashi, Hiroshi  
CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan  
SOURCE: Nucleic Acids Symposium Series (1981), 10,  
23-6  
CODEN: NACSD8; ISSN: 0261-3166  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
ED Entered STN: 12 May 1984

AB... O-Glycosyl- and O-neuraminoylnucleosides, e.g., I and II, were prepared. I was prepared by condensation of 1,6-anhydro-D-lactose hexaacetate with trimethylsilylated 5-fluorouracil in the presence of SnCl<sub>4</sub>. II was prepared by reaction of Me 2-chloro-4,7,8,9-tetra-O-acetyl-N-acetyl-D-neuraminate with 2',3'-O-isopropylidene-5-fluorouridine.

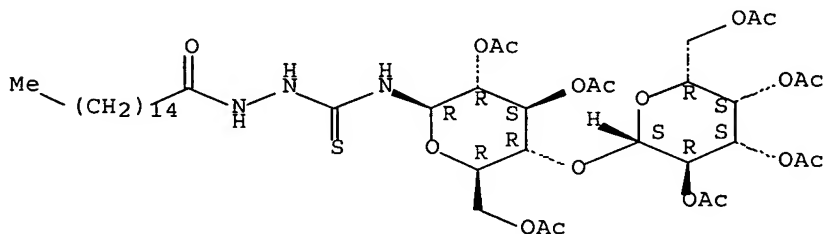
IT 80681-67-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 80681-67-0 HCAPLUS

CN Hexadecanoic acid, 2-[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-β-D-glucopyranosyl]amino]methyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

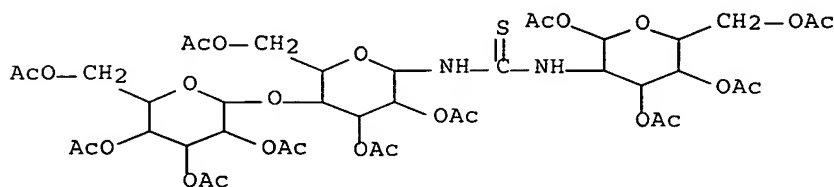


IT 80699-37-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 80699-37-2 HCAPLUS

CN β-D-Glucopyranose, 2-deoxy-2-[[thioxo[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-β-D-glucopyranosyl]amino]methyl]amino]-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)



L49 ANSWER 249 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:604576 HCAPLUS Full-text

DOCUMENT NUMBER: 93:204576

TITLE: Synthesis of proxl-benzoisallopurinol

AUTHOR(S): Foster, Robert H.; Leonard, Nelson J.

CORPORATE SOURCE: Sch. Chem. Sci., Univ. Illinois, Urbana, IL, 61801, USA

SOURCE: Journal of Organic Chemistry (1980), 45(15), 3072-7

DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 12 May 1984

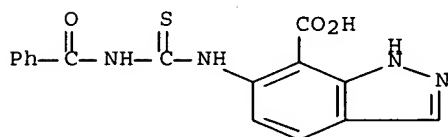
AB Pyrazolo[3,4-f]quinazolin-9-one (prox-benzoisallopurinol, I), an extended analog of 7-hydroxypyrazolo[4,3-d]pyrimidine (isallopurinol) and a potential dimensional probe for substrates of xanthine oxidase, has been synthesized by two independent routes. I, prepared by elaboration of either a suitably substituted indazole or a quinazolinone, was found to be an active substrate for and an alternative-substrate inhibitor of xanthine oxidase. The product of enzymic oxidation of I has been identified as the corresponding prox-benzoisalloxanthine.

IT 73907-96-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 73907-96-7 HCAPLUS

CN 1H-Indazole-7-carboxylic acid, 6-[[ (benzoylamino)thioxomethyl]amino] - (9CI) (CA INDEX NAME)



L49 ANSWER 250 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:481448 HCAPLUS Full-text

DOCUMENT NUMBER: 95:81448

TITLE: Kinetics of reaction of isothiocyanate derivatives of stilbene with glycine and of phenyl isothiocyanate with alanine ethyl ester

AUTHOR(S): Kuczek, Marian; Nowak, Kornel

CORPORATE SOURCE: Sch. Med., Inst. Biochem. Biophys., Wroclaw, 50368, Pol.

SOURCE: Polish Journal of Chemistry (1980), 54(9), 1691-6

CODEN: PJCHDQ; ISSN: 0137-5083

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB The kinetics of the reaction of trans-stilbene isothiocyanates I (R = H, OMe, NMe<sub>2</sub>, R<sub>1</sub> = H; R = R<sub>1</sub> = OMe) and II with glycine and of PhNCS with H-Ala-OEt were studied. Also, the kinetics of the cyclization of the resulting thiocarbamoyl derivs. to thiohydantoin were determined

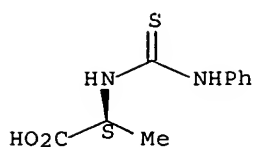
IT 65428-88-8P 78588-49-5P 78588-50-8P  
78588-51-9P 78588-52-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, kinetics of)

RN 65428-88-8 HCAPLUS

CN L-Alanine, N-[(phenylamino)thioxomethyl] - (9CI) (CA INDEX NAME)

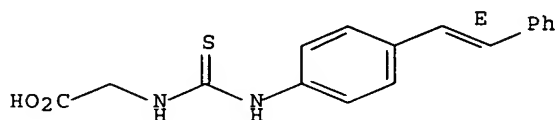
Absolute stereochemistry.



RN 78588-49-5 HCAPLUS

CN Glycine, N-[[[4-(2-phenylethenyl)phenyl]amino]thioxomethyl]-, (E)- (9CI)  
(CA INDEX NAME)

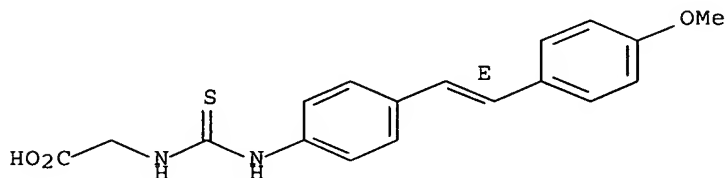
Double bond geometry as shown.



RN 78588-50-8 HCAPLUS

CN Glycine, N-[[[4-[2-(4-methoxyphenyl)ethenyl]phenyl]amino]thioxomethyl]-, (E)- (9CI) (CA INDEX NAME)

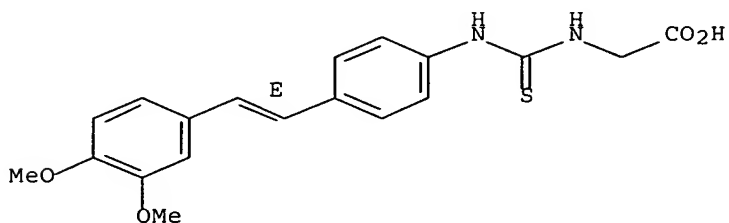
Double bond geometry as shown.



RN 78588-51-9 HCAPLUS

CN Glycine, N-[[[4-[2-(3,4-dimethoxyphenyl)ethenyl]phenyl]amino]thioxomethyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

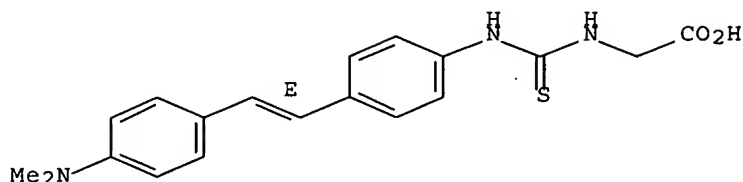


RN 78588-52-0 HCAPLUS

CN Glycine, N-[[[4-[2-[4-(dimethylamino)phenyl]ethenyl]phenyl]amino]thioxomet

hyl]-, (E)- (9CI). (CA INDEX NAME)

Double bond geometry as shown.



L49 ANSWER 251 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:3508 HCAPLUS Full-text

DOCUMENT NUMBER: 94:3508

TITLE: The synthesis of 3,5-diamino-1,2,4-oxadiazoles. Part 2

AUTHOR(S): Tilley, Jefferson W.; Ramuz, Henri; Levitan, Paul; Blount, John F.

CORPORATE SOURCE: Pharm. Res. Dep., F. Hoffmann-La Roche und Co., Ltd., Basel, CH-4002, Switz.

SOURCE: Helvetica Chimica Acta (1980), 63(4), 841-59

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 94:3508

ED Entered STN: 12 May 1984

AB Cyclizing amidinoureas I (R = H, R1 = H, 2-Cl, 2-Me, 2-MeO, 4-F; R = 2-Cl, R1 = 3-Cl, 6-Cl) gave 34-71% 1,2,4-oxadiazoles II (R2 = H). The cyclization of carbamoylguanidines III (R = H, R1 = H, 4-Cl, 4-Me, 2-Cl; R2 = Me, Et, Me3C, Ph; R = 3-Cl, R1 = 4-Cl, R2 = Me; R = 2-Cl, R1 = 6-Cl, R2 = Me) gave 25-76% II and 1.3-26% 1,2,3-triazolones IV. Also prepared were cyanoguanidines V (R = H, R1 = 2-Cl, 2-MeO, 4-F; R = 2-Cl, R1 = 3-Cl, 6-Cl) in 46-89% yields, whose acid hydrolysis gave I. I may give triazolones, e.g. VI, by a Hoffmann-type rearrangement, whereas III apparently rearranges to a diazirine whose opening gives IV. The structures of VI and IV (R = 4-Cl, R1 = H, R2 = Me) were established by x-ray crystallog.

IT 75564-77-1P

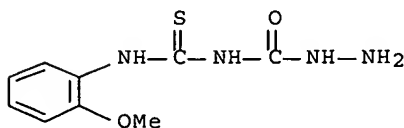
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 75564-77-1 HCAPLUS

CN Hydrazinecarboxamide, N-[[[(2-methoxyphenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



IT 75564-76-0P

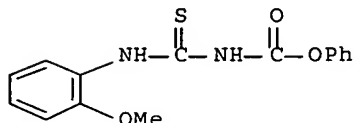
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and hydrogenolysis of)

RN 75564-76-0 HCAPLUS

CN Carbamic acid, [[(2-methoxyphenyl)amino]thioxomethyl]-, phenyl ester (9CI)  
(CA INDEX NAME)



L49 ANSWER 252 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:198521 HCAPLUS Full-text

DOCUMENT NUMBER: 92:198521

TITLE: Synthesis and properties of the sulfonyl analogs of  
4(5)-aminoimidazole-5(4)-carboxamide,  
4(5)-(formylamino)imidazole-5(4)-carboxamide, guanine,  
and xanthine

AUTHOR(S): Huang, Bao-Shan; Chello, Paul L.; Yip, Lily; Parham,  
James C.

CORPORATE SOURCE: Mem. Sloan-Kettering Cancer Cent., New York, NY,  
10021, USA

SOURCE: Journal of Medicinal Chemistry (1980),  
23(5), 575-7

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 92:198521

ED Entered STN: 12 May 1984

AB Reduction of 4(5)-nitroimidazole-5(4)-sulfonamide afforded the 4(5)-  
aminoimidazole-5(4)-sulfonamide I (R = H). I (R = H) was formylated to give I  
(R = CHO). I (R = H) was treated with BzNCS followed by cyclization to give  
3-aminoimidazo[4,5-e]-1,2,4-thiadiazine 1,1-dioxide (II). Diazotization of II  
gave the corresponding 6-sulfonyl analog of xanthine. None of the imidazole  
sulfonamides or the purine 6-sulfonyl analogs inhibited the growth of L1210  
cells in culture nor were they substrates for or significant inhibitors of  
human hypoxanthine-guanine phosphoribosyltransferase or milk xanthine oxidase.

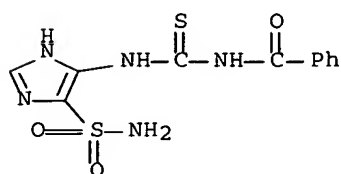
IT 73576-09-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, imidazoethiadiazine derivative from)

RN 73576-09-7 HCAPLUS

CN Benzamide, N-[[[5-(aminosulfonyl)-1H-imidazol-4-yl]amino]thioxomethyl]-  
(9CI) (CA INDEX NAME)



L49 ANSWER 253 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:443045 HCAPLUS Full-text

DOCUMENT NUMBER: 95:43045

TITLE: Condensed as-triazines. VII. A simplified method for the synthesis of benzo-as-triazine derivatives

AUTHOR(S): Messmer, Andras; Hajos, Gyorgy; Benko, Pal; Pallos, Laszlo

CORPORATE SOURCE: Hung.

SOURCE: Magyar Kemiai Folyoirat (1980), 86(10), 466-70

CODEN: MGKFA3; ISSN: 0025-0155

DOCUMENT TYPE: Journal

LANGUAGE: Hungarian

OTHER SOURCE(S): CASREACT 95:43045

ED Entered STN: 12 May 1984

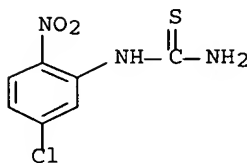
AB The 3-mercaptopbenzo-as-triazines I (R = H, 5-Cl, 6-Cl, 7-Cl, 7-Me, 7-OMe, 6-SMe; R1 = SH, SMe, SCH2Ph, piperidinocarbonylmethylthio, SCHMePh, SCH2COOEt, tetraacetylglycosylthio, morpholinocarbonylmethylthio, SCH2COOH, SCH2CN, morpholino, di(hydroxyethyl)amino, piperidino, N-methylpiperazino, hydrazino; n = 0, 1) (52 compds.) were prepared from 1-benzoyl-3-(o-nitrophenyl)thiocarbamides, by Arndt-Rosenau ring closure reaction in boiling NaOH solution and subsequent alkylation and nucleophilic substitution reactions. The use of o-nitrophenylthiocarbamide protected by a benzoyl group increased markedly the yield of the ring closure reaction. Ring closure of the 1-benzoyl-(2-nitro-5-chlorophenyl)thiocarbamide gave I (R = MeS, R1 = 6-MeS).

IT 77185-82-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 77185-82-1 HCAPLUS

CN Thiourea, (5-chloro-2-nitrophenyl)- (9CI) (CA INDEX NAME)



IT 66934-10-9P 75121-84-5P 75121-85-6P

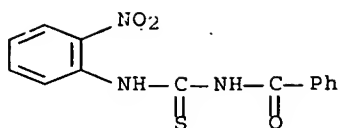
75121-86-7P 75121-87-8P 75121-88-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, benzotriazine derivative from)

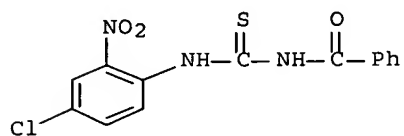
RN 66934-10-9 HCAPLUS

CN Benzamide, N-[[[(2-nitrophenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



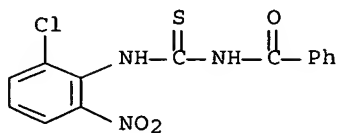
RN 75121-84-5 HCAPLUS

CN Benzamide, N-[[ (4-chloro-2-nitrophenyl)amino]thioxomethyl] - (9CI) (CA INDEX NAME)



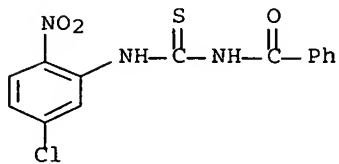
RN 75121-85-6 HCAPLUS

CN Benzamide, N-[[ (2-chloro-6-nitrophenyl)amino]thioxomethyl] - (9CI) (CA INDEX NAME)



RN 75121-86-7 HCAPLUS

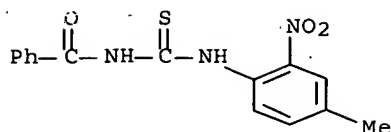
CN Benzamide, N-[[ (5-chloro-2-nitrophenyl)amino]thioxomethyl] - (9CI) (CA INDEX NAME)



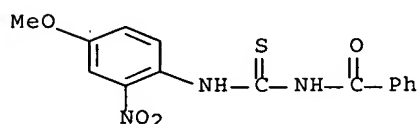
RN 75121-87-8 HCAPLUS

CN Benzamide, N-[[ (4-methyl-2-nitrophenyl)amino]thioxomethyl] - (9CI) (CA INDEX NAME)





RN 75121-88-9 HCAPLUS  
 CN Benzamide, N-[[4-methoxy-2-nitrophenyl]amino]thioxomethyl]- (9CI) (CA  
 INDEX NAME)



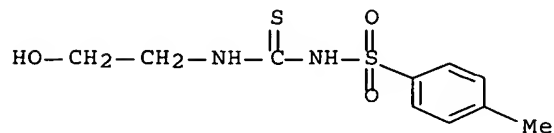
L49 ANSWER 254 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:15637 HCAPLUS Full-text  
 DOCUMENT NUMBER: 94:15637  
 TITLE: Chemistry of sulfonyl isocyanates and sulfonyl  
isothiocyanates. X. Possible routes to  
 substituted imidazolidinethiones and  
 hexahydropyrimidinethiones  
 AUTHOR(S): McFarland, J. W.; Kozel, T. H.; Stuhlmacher, K. R.;  
 Chevalier, T. S.  
 CORPORATE SOURCE: Dep. Chem., DePauw Univ., Greencastle, IN, 46135, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1980),  
 17(2), 273-6  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 94:15637  
 ED Entered STN: 12 May 1984  
 AB 4-Toluenesulfonyl isocyanate (I) reacted with 2-aminoethanol and 3-amino-1-  
 propanol to give 2:1 isocyanate/amino alc. addition products. 1-Amino-2-  
 propanol and I gave 1:1 and 2:1 adducts while 2-amino-2-methyl-1-propanol  
 afforded only a 1:1 adduct. 4-Toluenesulfonyl isothiocyanate (II) gave 1:1  
 adducts with 2-aminoethanol, 1-amino-2-propanol and 3-amino-1-propanol, the  
 first two of which were cyclized by concentrated H2SO4 to give 1-(4-  
 toluenesulfonyl)imidazoline-2- thiones and the third to 1-(4-  
 toluenesulfonyl)hexahydropyrimidine-2- thione. A 1:2 adduct was obtained from  
 II and 2-amino-2-methyl-1- propanol. Amino acids reacted with I and with 4-  
 chlorobenzenesulfonyl isocyanate to give N-(arylsulfonyl)-N1-(carboxylic  
 acid)-ureas. N-(4-Toluenesulfonyl)-N1-(acetic acid)-urea was converted to the  
 Me ester by concentrated H2SO4 and MeOH and to water-soluble unrecoverable  
 products by H2SO4 alone. Glycine and II gave N-(4-toluenesulfonyl)-N1-(acetic  
 acid)-thiourea, which was converted to the Me ester by concentrated H2SO4/MeOH  
 and to the cyclic 1-(4-toluenesulfonyl)imidazolin-5-one-2-thione III by H2SO4  
 alone.  
 IT 75483-19-1P 75483-21-5P 75483-26-0P  
75499-05-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

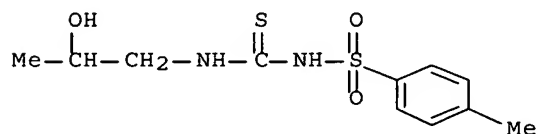
RN 75483-19-1 HCAPLUS

CN Benzenesulfonamide, N-[[ (2-hydroxyethyl) amino]thioxomethyl]-4-methyl-  
(9CI) (CA INDEX NAME)



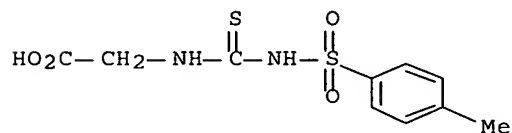
RN 75483-21-5 HCAPLUS

CN Benzenesulfonamide, N-[[ (2-hydroxypropyl) amino]thioxomethyl]-4-methyl-  
(9CI) (CA INDEX NAME)



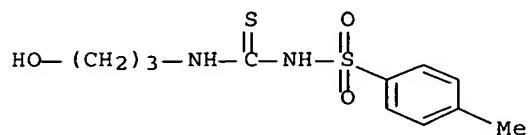
RN 75483-26-0 HCAPLUS

CN Glycine, N-[[[(4-methylphenyl) sulfonyl] amino]thioxomethyl]- (9CI) (CA  
INDEX NAME)



RN 75499-05-7 HCAPLUS

CN Benzenesulfonamide, N-[[ (3-hydroxypropyl) amino]thioxomethyl]-4-methyl-  
(9CI) (CA INDEX NAME)

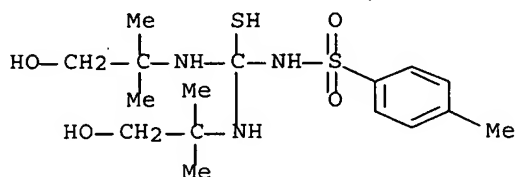


IT 75483-24-8P 75483-28-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

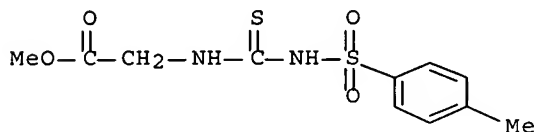
RN 75483-24-8 HCAPLUS

CN Benzenesulfonamide, N-[bis[(2-hydroxy-1,1-dimethylethyl)amino]mercaptomethyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 75483-28-2 HCAPLUS

CN Glycine, N-[[[(4-methylphenyl)sulfonyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 255 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:47249 HCAPLUS Full-text

DOCUMENT NUMBER: 94:47249

TITLE: Synthesis of azolophthalazinone derivatives as potential antimicrobial agents

AUTHOR(S): Gabr, M.; Hazzaa, A. A. B.; Khalil, M. A.

CORPORATE SOURCE: Fac. Pharmacy, Alexandria Univ., Alexandria, Egypt

SOURCE: Scientia Pharmaceutica (1980), 48(2), 141-6

CODEN: SCPHA4; ISSN: 0036-8709

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

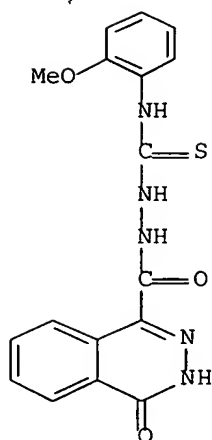
AB Azolylphthalazines I (R = SH, X = NR1, R1 = Bu, CH2Ph, Ph, C6H4Me-2, C6H4Me-3, C6H4Me-4, C6H4OMe-2, C6H4Cl-4) were prepared by treating 4-oxo-1-phthalazinecarbohydrazide with R1NCS and cyclizing the thiosemicarbazides II with 5% NaOH. I (X = O, R = NHR1) were obtained by cyclizing II with 4 N NaOH and I (X = S, R = NHR1) by cyclizing II with concentrated H2SO4. I (X = O, R = NHC6H4Me-3) had the best fungicidal activity. None of the I had bactericidal activity.

IT 76226-14-7P

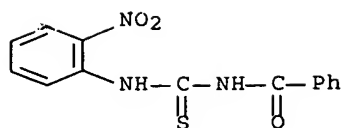
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 76226-14-7 HCAPLUS

CN 1-Phthalazinecarboxylic acid, 3,4-dihydro-4-oxo-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

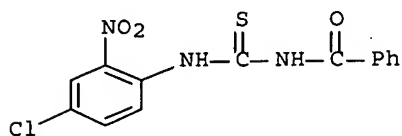


L49 ANSWER 256 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1980:568232 HCAPLUS Full-text  
 DOCUMENT NUMBER: 93:168232  
 TITLE: Condensed as-triazines. VII. A simplified method for the synthesis of benzo-as-triazine derivatives  
 AUTHOR(S): Messmer, A.; Hajos, G.; Benko, P.; Pallos, L.  
 CORPORATE SOURCE: Cent. Res. Inst. Chem., Hung. Acad. Sci., Budapest, Hung.  
 SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1980), 103(2), 123-33  
 CODEN: ACASA2; ISSN: 0001-5407  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 93:168232  
 ED Entered STN: 12 May 1984  
 AB Benzotriazine oxides I (R = H, 7-Cl, 5-Cl, 6-Cl, 7-Me, 7-OMe, R1 = SH, n = 1) were prepared in 40-80% yield by cyclizing the thioureas II, prepared by treating o-nitroanilines with BzNCS. I (R1 = SH, n = 1) were alkylated to give I (R1 = SMe, SCH2Ph, piperidinoacetylthio, SCHMePh, SCH2CO2Et, tetraacetylglucosylthio, morpholinoacetylthio, SCH2CO2H, SCH2CN, n = 1) some of which were reduced to I (n = 0). Aminolysis of I (R1 = SMe, n = 0, 1) gave I [R1 = morpholino, N(CH2CH2OH)2, piperidino, N-methylpiperazino, NHH2]. Cyclization of II (R = 5-Cl) was accompanied by the formation of 5,2-Cl(O2N)C6H3NHCN.  
 IT 66934-10-9P 75121-84-5P 75121-85-6P  
75121-86-7P 75121-87-8P 75121-88-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 66934-10-9 HCAPLUS  
 CN Benzamide, N-[[[(2-nitrophenyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



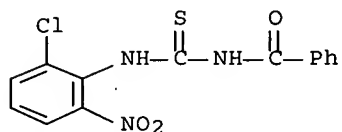
RN 75121-84-5 HCAPLUS

CN Benzamide, N-[[ (4-chloro-2-nitrophenyl) amino]thioxomethyl] - (9CI) (CA INDEX NAME)



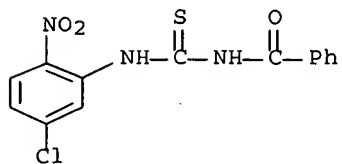
RN 75121-85-6 HCAPLUS

CN Benzamide, N-[[ (2-chloro-6-nitrophenyl) amino]thioxomethyl] - (9CI) (CA INDEX NAME)



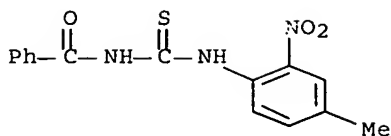
RN 75121-86-7 HCAPLUS

CN Benzamide, N-[[ (5-chloro-2-nitrophenyl) amino]thioxomethyl] - (9CI) (CA INDEX NAME)

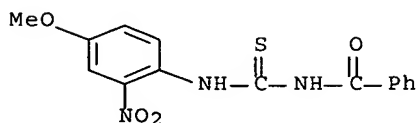


RN 75121-87-8 HCAPLUS

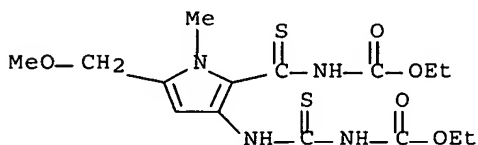
CN Benzamide, N-[[ (4-methyl-2-nitrophenyl) amino]thioxomethyl] - (9CI) (CA INDEX NAME)



RN 75121-88-9 HCAPLUS  
 CN Benzamide, N-[[4-methoxy-2-nitrophenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 257 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:192259 HCAPLUS Full-text  
 DOCUMENT NUMBER: 94:192259  
 TITLE: The synthesis and carbon-13 NMR spectra of pyrrolo[3,2-d][1,3]thiazines and pyrrolo[3,2-d]pyrimidines  
 AUTHOR(S): Grehn, L.  
 CORPORATE SOURCE: Inst. Chem., Univ. Uppsala, Uppsala, Swed.  
 SOURCE: Chemica Scripta (1980), 16(3), 77-84  
 CODEN: CSRPB9; ISSN: 0004-2056  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 94:192259  
 ED Entered STN: 12 May 1984  
 AB Pyrrolothiazines I (R = H, MeOCH<sub>2</sub>) and pyrrolopyrimidines, e.g. II, were prepared from readily available pyrrole derivs. Thus, the pyrrole III (R = H) was acylated by EtO<sub>2</sub>CNCS to give III (R = CSNHCO<sub>2</sub>Et) which was cyclized to give I (R = MeOCH<sub>2</sub>). <sup>13</sup>C NMR parameters for all new compds. were determined in (D<sub>3</sub>C)<sub>2</sub>SO.  
 IT 77478-91-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, cyclization, and carbon-13 NMR of)  
 RN 77478-91-2 HCAPLUS  
 CN Carbamic acid, [[3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-5-(methoxymethyl)-1-methyl-1H-pyrrol-2-yl]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 258 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:532428 HCAPLUS Full-text

DOCUMENT NUMBER: 93:132428

TITLE: Synthesis of new "benzyl"-thiourea derivatives and their cyclic analogs with diuretic and saluretic activity

AUTHOR(S): Reiter, J.; Toldy, L.; Schaefer, I.; Szondy, E.; Borsy, J.; Lukovits, I.

CORPORATE SOURCE: Inst. Drug Res., Budapest, Hung.

SOURCE: European Journal of Medicinal Chemistry (1980), 15(1), 41-53

CODEN: EJMCA5; ISSN: 0009-4374

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 93:132428

ED Entered STN: 12 May 1984

AB RR1CHNHCSNR2R3 [I; R = optionally substituted Ph; R1 = H, Me, Et, Pr, CHMe2, (CH2)6Me, cyclopropyl; R2 = H, Me, Et, Bu, cyclohexyl, CH2CH2OH; R3 = (CH2)3OH, CH2CHMeOH, CH2CMe2OH, CHEtCH2OH, allyl, CH2CMe:CH2, CH2CH2OH] and their cyclic derivs. II (X = CH2, CH2CH2, CH2CHMe, CH2CMe2, CHEtCH2, CH2CH:CH) with diuretic and saluretic activity were prepared Thus, RR1CHNH2 were converted to RR1CHNCS or RR1CHNHCS2Me, which were treated with R2R3NH to give I. Acidic cyclization of I using HCl gave II. The quant. structure activity relationships for I and II were determined using the Free-Wilson approach.

IT 61290-51-5P 61290-53-7P 61290-56-0P

61290-60-6P 61290-65-1P 61290-67-3P

61290-78-6P 61290-83-3P 74548-48-4P

74548-55-3P 74787-61-4P 74787-63-6P

74787-64-7P 74787-66-9P 74787-70-5P

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74787-86-3P 74787-87-4P 74787-90-9P

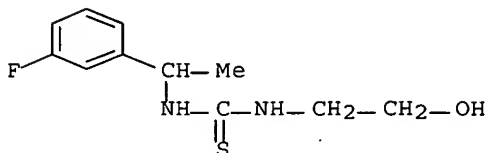
74787-91-0P 74787-92-1P 74787-93-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and diuretic and saluretic activity of)

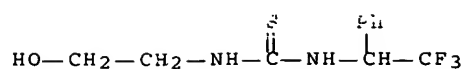
RN 61290-51-5 HCAPLUS

CN Thiourea, N-[1-(3-fluorophenyl)ethyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



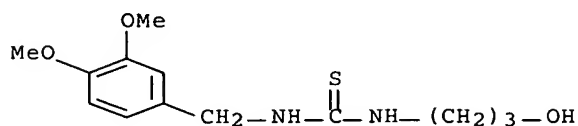
RN 61290-53-7 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-(2,2,2-trifluoro-1-phenylethyl)- (9CI) (CA INDEX NAME)



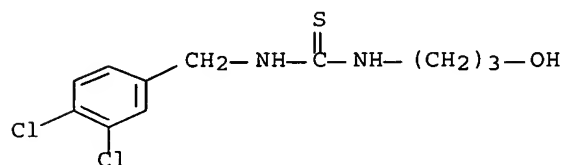
RN 61290-56-0 HCAPLUS

CN Thiourea, N-[(3,4-dimethoxyphenyl)methyl]-N'-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



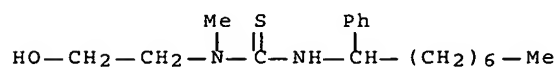
RN 61290-60-6 HCAPLUS

CN Thiourea, N-[(3,4-dichlorophenyl)methyl]-N'-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



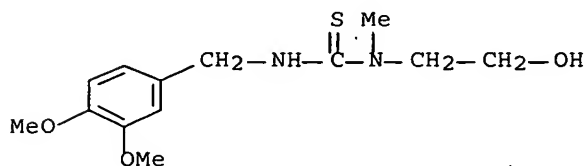
RN 61290-65-1 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N-methyl-N'-(1-phenyloctyl)- (9CI) (CA INDEX NAME)



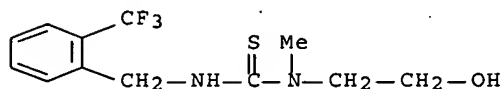
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CN Thiourea, N'-[(3,4-dimethoxyphenyl)methyl]-N-(2-hydroxyethyl)-N-methyl- (9CI) (CA INDEX NAME)

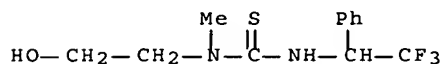




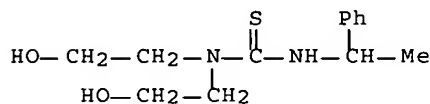
RN 61290-78-6 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N-methyl-N'-[[2-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



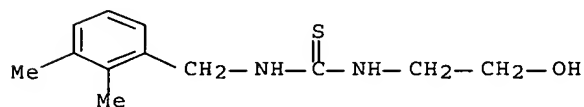
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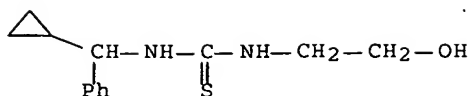
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 CN Thiourea, N,N-bis(2-hydroxyethyl)-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



RN 74548-55-3 HCAPLUS  
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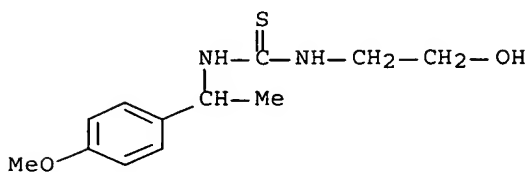


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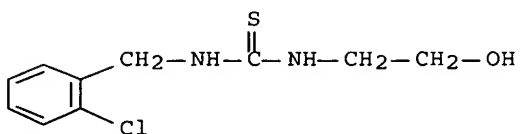
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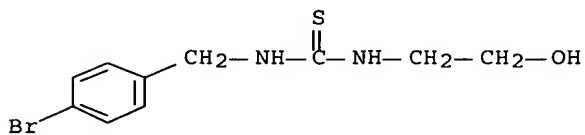
RN 74787-64-7 HCAPLUS

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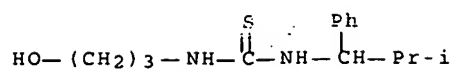
RN 74787-66-9 HCAPLUS

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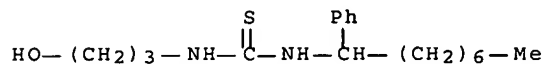
RN 74787-70-5 HCAPLUS

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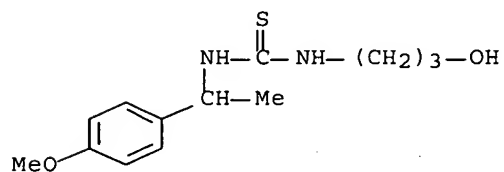
RN 74787-71-6 HCAPLUS

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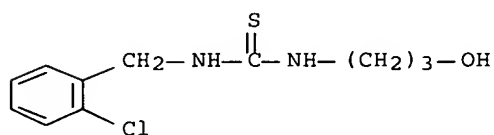
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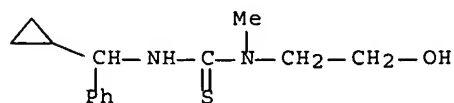
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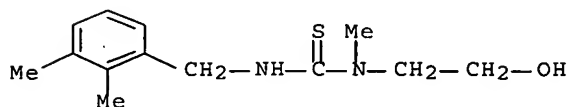
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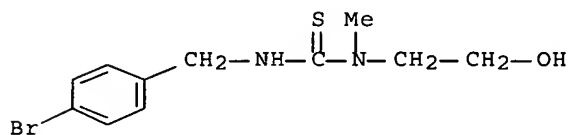
RN 74787-87-4 HCAPLUS

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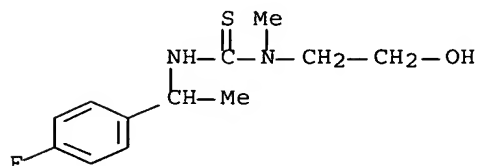
RN 74787-90-9 HCAPLUS

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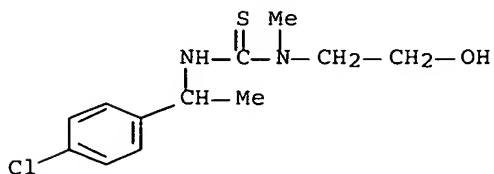
RN 74787-91-0 HCAPLUS

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(CA INDEX NAME)



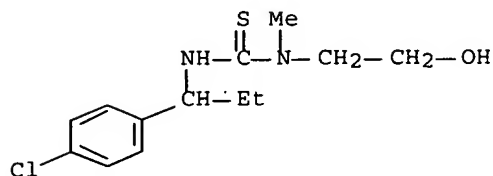
RN 74787-92-1 HCAPLUS

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(CA INDEX NAME)



RN 74787-93-2 HCAPLUS

CN Thiourea, N'-[1-(4-chlorophenyl)propyl]-N-(2-hydroxyethyl)-N-methyl- (9CI) (CA INDEX NAME)

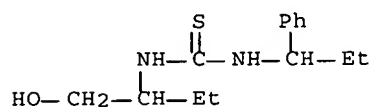


IT 74788-81-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 74788-81-1 HCAPLUS

CN Thiourea, N-[1-(hydroxymethyl)propyl]-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)

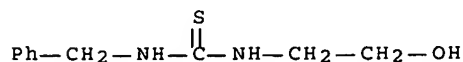


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 61290-46-8P 61290-47-9P 61290-48-0P  
 61290-50-4P 61290-52-6P 61290-58-2P  
 61290-61-7P 61290-69-5P 61290-71-9P  
 61290-72-0P 61290-73-1P 61290-74-2P  
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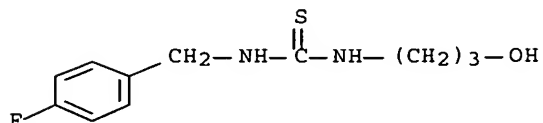
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation, cyclization, and diuretic activity of)

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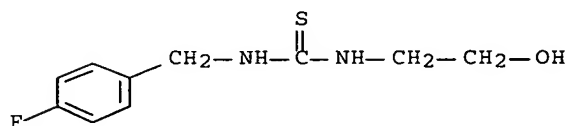
CN Thiourea, N-(2-hydroxyethyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



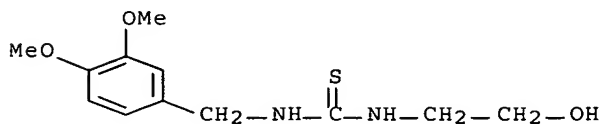
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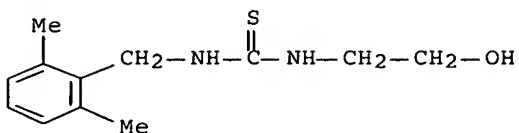
RN 61290-32-2 HCAPLUS  
 CN Thiourea, N-[(4-fluorophenyl)methyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



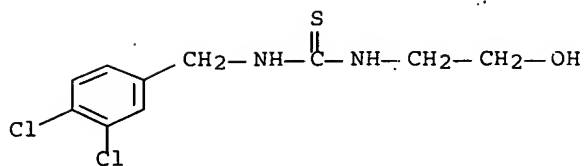
RN 61290-40-2 HCAPLUS  
 CN Thiourea, N-[(3,4-dimethoxyphenyl)methyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 61290-42-4 HCAPLUS  
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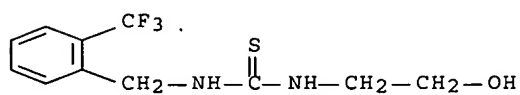


RN 61290-45-7 HCAPLUS  
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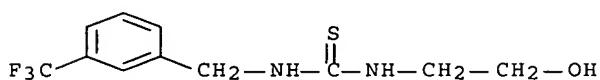
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(CA INDEX NAME)



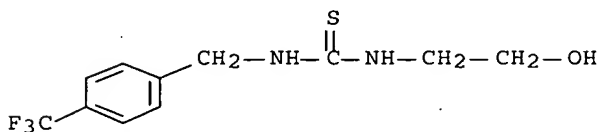
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(CA INDEX NAME)



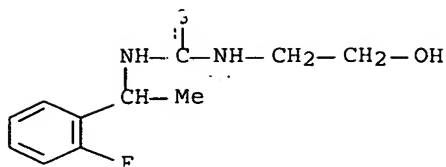
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(CA INDEX NAME)

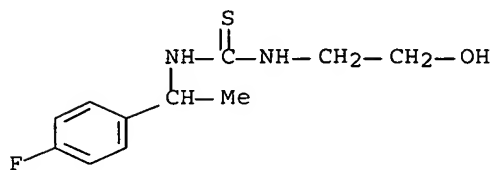


RN 61290-50-4 HCAPLUS

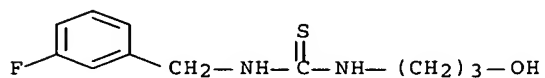
CN Thiourea, N-[1-(2-fluorophenyl)ethyl]-N'-(2-hydroxyethyl) - (9CI) (CA INDEX NAME)



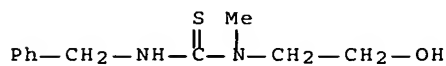
RN 61290-52-6 HCAPLUS  
 CN Thiourea, N-[1-(4-fluorophenyl)ethyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 61290-58-2 HCAPLUS  
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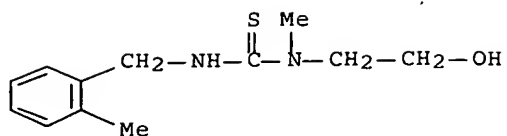


RN 61290-61-7 HCAPLUS  
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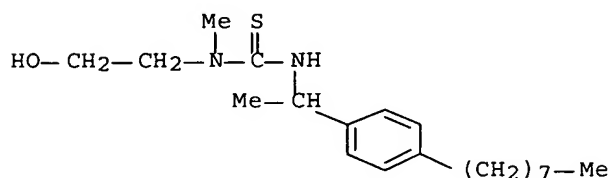
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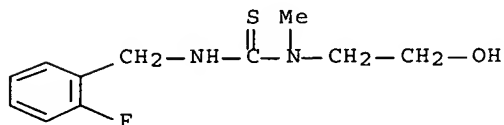
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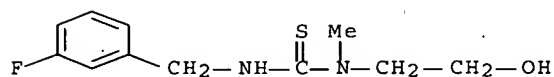
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(CA INDEX NAME)



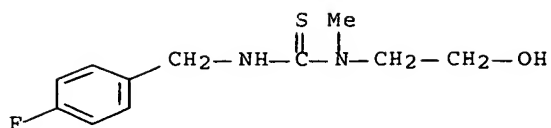
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(CA INDEX NAME)



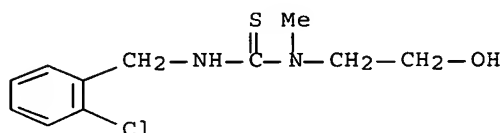
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(CA INDEX NAME)



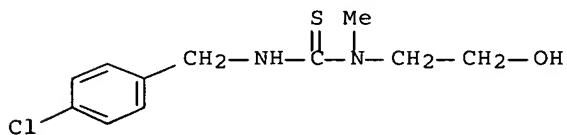
RN 61290-75-3 HCAPLUS

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(CA INDEX NAME)



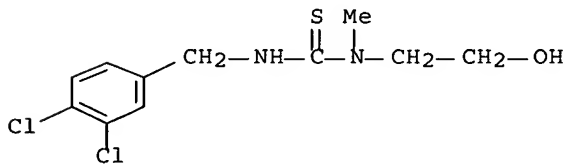
RN 61290-76-4 HCAPLUS

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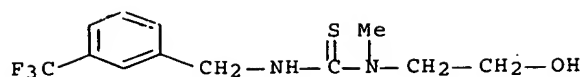
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(CA INDEX NAME)



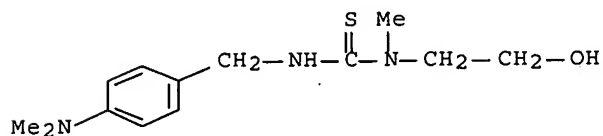
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(CA INDEX NAME)



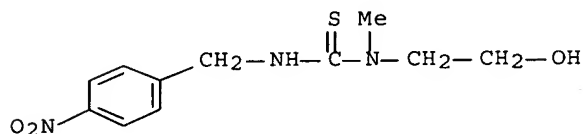
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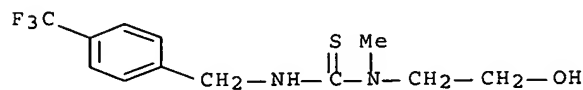
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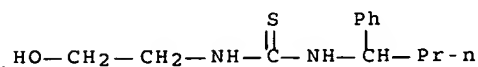
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RN 74548-43-9 HCAPLUS

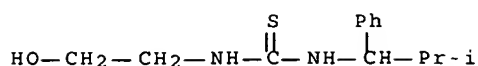
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RN 74548-44-0 HCAPLUS

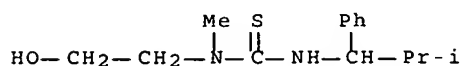
CN Thiourea, N-(2-hydroxyethyl)-N'-(2-methyl-1-phenylpropyl)- (9CI) (CA INDEX NAME)

INDEX NAME)



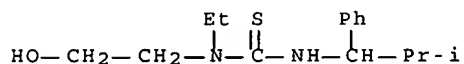
RN 74548-45-1 HCAPLUS

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(CA INDEX NAME)



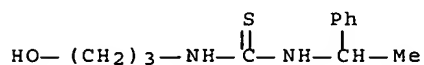
RN 74548-46-2 HCAPLUS

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(CA INDEX NAME)



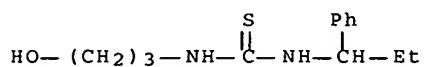
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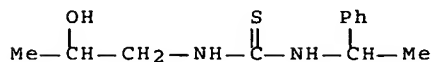
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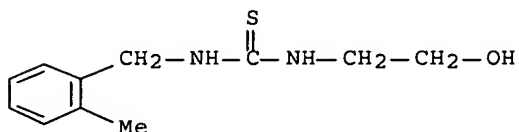


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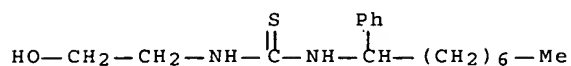
CN Thiourea, N-(2-hydroxypropyl)-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



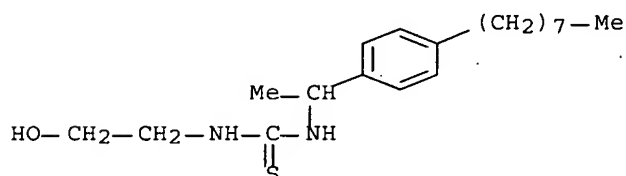
RN 74548-54-2 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-[(2-methylphenyl)methyl] - (9CI) (CA INDEX NAME)



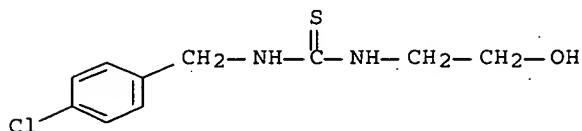
RN 74787-60-3 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-(1-phenyloctyl) - (9CI) (CA INDEX NAME)



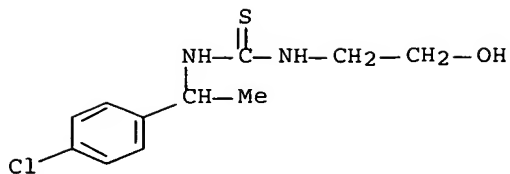
RN 74787-62-5 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-[1-(4-octylphenyl)ethyl] - (9CI) (CA INDEX NAME)



RN 74787-65-8 HCAPLUS  
 CN Thiourea, N-[(4-chlorophenyl)methyl]-N'-(2-hydroxyethyl) - (9CI) (CA INDEX NAME)

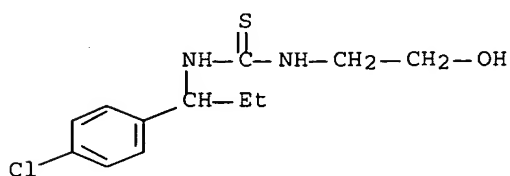


RN 74787-67-0 HCAPLUS  
 CN Thiourea, N-[1-(4-chlorophenyl)ethyl]-N'-(2-hydroxyethyl) - (9CI) (CA INDEX NAME)



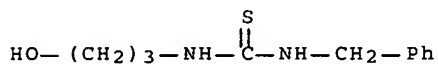
RN 74787-68-1 HCAPLUS

CN Thiourea, N-[1-(4-chlorophenyl)propyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



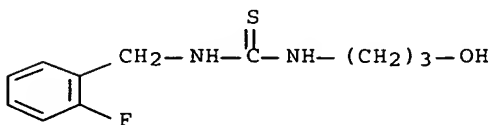
RN 74787-69-2 HCAPLUS

CN Thiourea, N-(3-hydroxypropyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



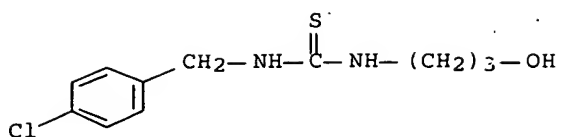
RN 74787-73-8 HCAPLUS

CN Thiourea, N-[(2-fluorophenyl)methyl]-N'-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



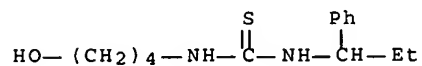
RN 74787-75-0 HCAPLUS

CN Thiourea, N-[(4-chlorophenyl)methyl]-N'-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



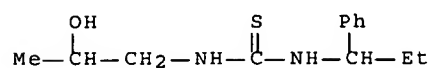
RN 74787-76-1 HCAPLUS

CN Thiourea, N-(4-hydroxybutyl)-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)



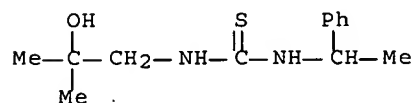
RN 74787-77-2 HCAPLUS

CN Thiourea, N-(2-hydroxypropyl)-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)



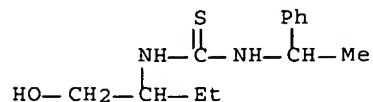
RN 74787-78-3 HCAPLUS

CN Thiourea, N-(2-hydroxy-2-methylpropyl)-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



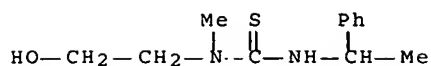
RN 74787-79-4 HCAPLUS

CN Thiourea, N-[1-(hydroxymethyl)propyl]-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



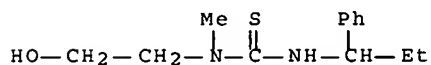
RN 74787-83-0 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N-methyl-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



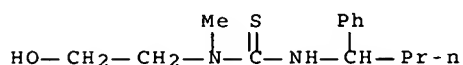
RN 74787-84-1 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N-methyl-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)



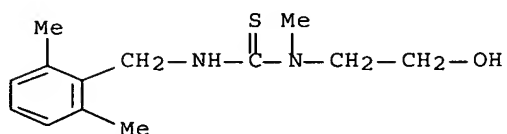
RN 74787-85-2 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N-methyl-N'-(1-phenylbutyl)- (9CI) (CA INDEX NAME)



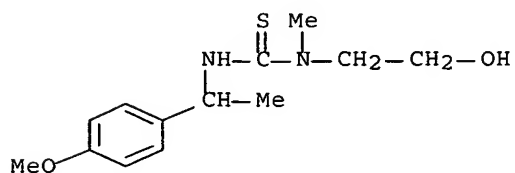
RN 74787-88-5 HCAPLUS

CN Thiourea, N'-[(2,6-dimethylphenyl)methyl]-N-(2-hydroxyethyl)-N-methyl- (9CI) (CA INDEX NAME)



RN 74787-89-6 HCAPLUS

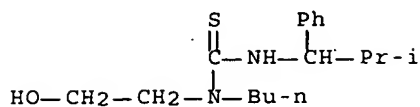
CN Thiourea, N-(2-hydroxyethyl)-N'-[1-(4-methoxyphenyl)ethyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 74787-94-3 HCAPLUS

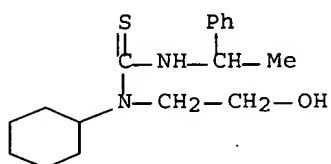


CN Thiourea, N-butyl-N-(2-hydroxyethyl)-N'-(2-methyl-1-phenylpropyl)- (9CI)M  
(CA INDEX NAME)



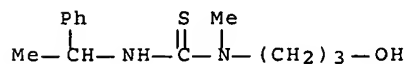
RN 74787-95-4 HCAPLUS

CN Thiourea, N-cyclohexyl-N-(2-hydroxyethyl)-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



RN 74787-96-5 HCAPLUS

CN Thiourea, N-(3-hydroxypropyl)-N-methyl-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



IT 61290-44-6P 74548-41-7P 74548-42-8P  
74548-53-1P

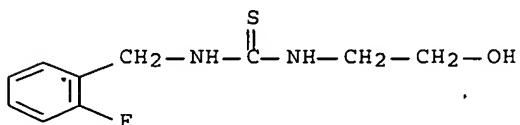
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation, cyclization, and diuretic and saluretic activity of)

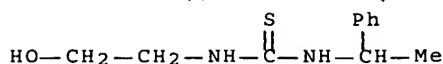
RN 61290-44-6 HCAPLUS

CN Thiourea, N-[(2-fluorophenyl)methyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)

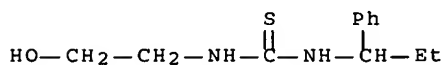


RN 74548-41-7 HCAPLUS

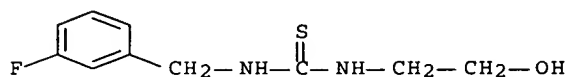
CN Thiourea, N-(2-hydroxyethyl)-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)



RN 74548-42-8 HCAPLUS  
 CN Thiourea, N-(2-hydroxyethyl)-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)



RN 74548-53-1 HCAPLUS  
 CN Thiourea, N-[(3-fluorophenyl)methyl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 259 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:175410 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 94:175410

TITLE: Syntheses of sulfur-containing nucleoside analogs

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sato, Osamu

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Nucleic Acids Symposium Series (1980), 8, s1-s4

CODEN: NACSD8; ISSN: 0261-3166

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Reaction of glycosyl isothiocyanates I, II, and III with diazo compds. or chloroethylamine gave glycosylamino-1,2,3-thiadiazoles and glycosylimidazolidine-2-thiones. Similar reaction of I and III with ethanolamine gave N-glycosyl-N'-hydroxyethylthioureides, followed by treatment of SOCl<sub>2</sub> to give glycosyliminothiazolidines. N-Glycosyl-N'-amidinothiocarboxamides were treated with SOCl<sub>2</sub> to give glycosyl-s-triazin S-oxides. N-Glycosyl-N'-(6-amino-1,3-dimethyl-2,4-dioxypyrimidin-5-yl)thioureides were oxidized with N-bromosuccinimide into pyrimidotriazine glycosides.

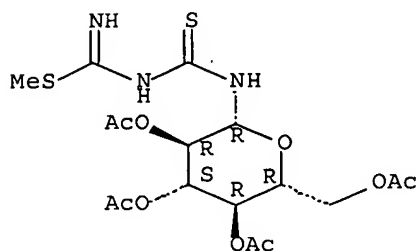
IT [69435-12-7P](#) [77049-56-0P](#) [77049-57-1P](#)  
[77049-60-6P](#) [77049-61-7P](#) [77049-62-8P](#)  
[77049-63-9P](#) [77049-64-0P](#) [77049-65-1P](#)  
[77060-38-9P](#) [77072-23-2P](#)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 69435-12-7 HCAPLUS

CN Carbamimidothioic acid, [[[2,3,4,6-tetra-O-acetyl  $\beta$ -D-glucopyranosyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)

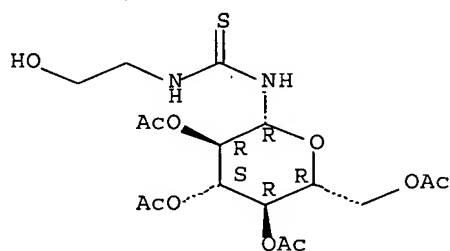
Absolute stereochemistry.



RN 77049-56-0 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

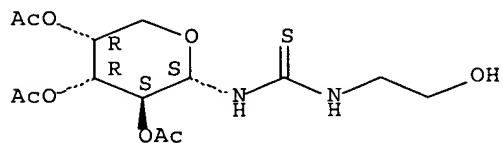
Absolute stereochemistry.



RN 77049-57-1 HCAPLUS

CN Thiourea, N-(2-hydroxyethyl)-N'-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

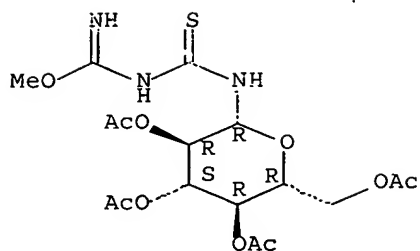
Absolute stereochemistry.



RN 77049-60-6 HCAPLUS

CN Carbamimidic acid, [[[2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)

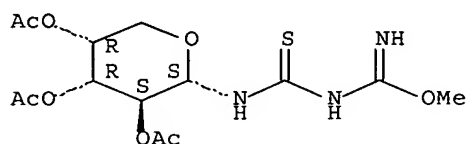
Absolute stereochemistry.



RN 77049-61-7 HCAPLUS

CN Carbamimidic acid, [thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

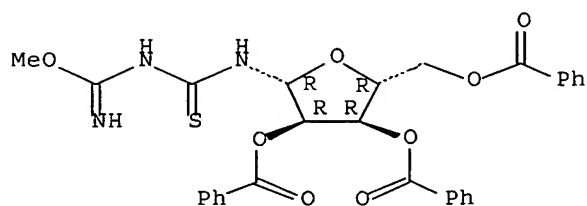
Absolute stereochemistry.



RN 77049-62-8 HCAPLUS

CN Carbamimidic acid, [thioxo[(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

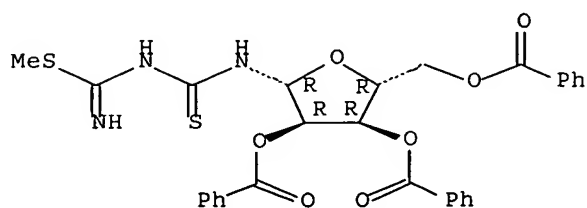
Absolute stereochemistry.



RN 77049-63-9 HCAPLUS

CN Carbamimidothioic acid, [thioxo[(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

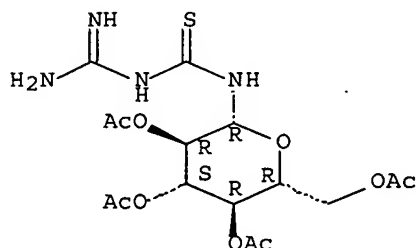
Absolute stereochemistry.



RN 77049-64-0 HCAPLUS

CN Thiourea, N-(aminoiminomethyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

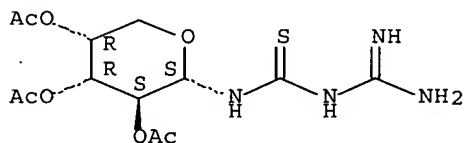
Absolute stereochemistry.



RN 77049-65-1 HCAPLUS

CN Thiourea, N-(aminoiminomethyl)-N'-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

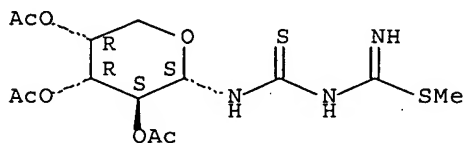
Absolute stereochemistry.



RN 77060-38-9 HCAPLUS

CN Carbamimidothioic acid, [thioxo[(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)

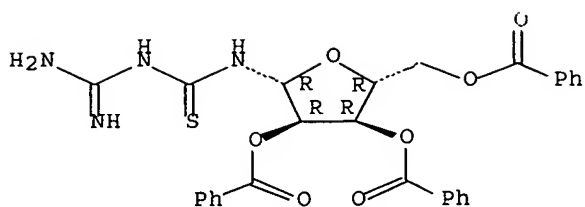
Absolute stereochemistry.



RN 77072-23-2 HCAPLUS

CN Thiourea, N-(aminoiminomethyl)-N'-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



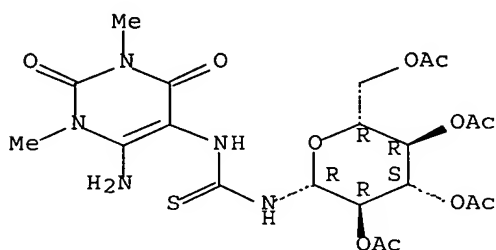
IT 71399-35-4P 71399-36-5P 71399-37-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and oxidation of)

RN 71399-35-4 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI)  
(CA INDEX NAME)

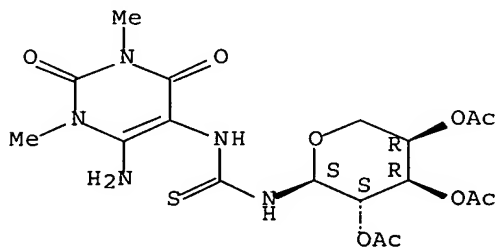
Absolute stereochemistry.



RN 71399-36-5 HCAPLUS

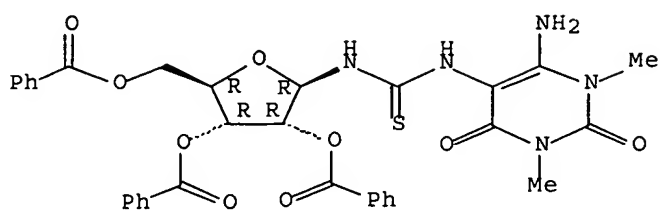
CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



RN 71399-37-6 HCAPLUS

CN Thiourea, N-(6-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)



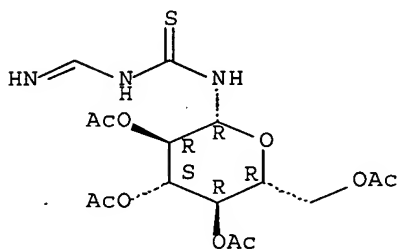
IT 73556-39-5P 73556-40-8P 77049-66-2P  
77049-67-3P 77049-68-4P 77061-89-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 73556-39-5 HCAPLUS

CN Thiourea, (aminomethylene) (2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl) -  
(9CI) (CA INDEX NAME)

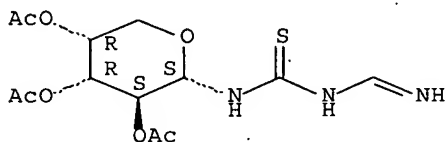
Absolute stereochemistry.



RN 73556-40-8 HCAPLUS

CN Thiourea, (aminomethylene) (2,3,4-tri-O-acetyl-alpha-D-arabinopyranosyl) -  
(9CI) (CA INDEX NAME)

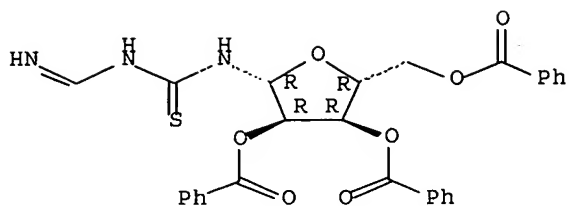
Absolute stereochemistry.



RN 77049-66-2 HCAPLUS

CN Thiourea, N-(iminomethyl)-N'-(2,3,5-tri-O-benzoyl-beta-D-ribofuranosyl) -  
(9CI) (CA INDEX NAME)

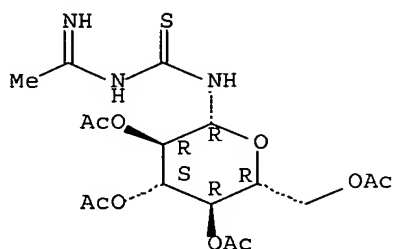
Absolute stereochemistry.



RN 77049-67-3 HCAPLUS

CN Ethanimidamide, N-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)

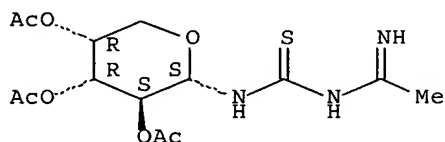
Absolute stereochemistry.



RN 77049-68-4 HCAPLUS

CN Ethanimidamide, N-[thioxo[(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)amino]methyl]- (9CI) (CA INDEX NAME)

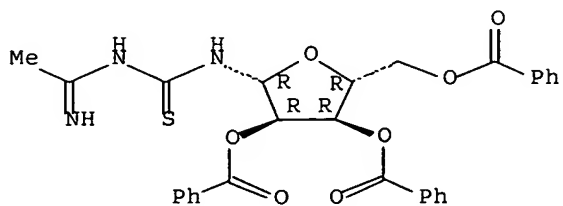
Absolute stereochemistry.



RN 77061-89-3 HCAPLUS

CN Ethanimidamide, N-[thioxo[(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)amino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





L49 ANSWER 260 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:491911 HCAPLUS Full-text

DOCUMENT NUMBER: 91:91911

TITLE: Studies on heterocyclic compounds. Part XXVIII. A novel one-step synthesis of thioquinazoline glycosides and pyrazolopyrimidine glycoside analogs

AUTHOR(S): Takahashi, Hiroshi; Nimura, Noriyuki; Ogura, Haruo

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1979), 27(5), 1143-6

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB The reaction of glycosyl isothiocyanates I, II, and III with o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H gave corresponding glycosylthioquinazolines IV (R = glycosyl) in the presence of ZnCl<sub>2</sub> in excellent yields. The reaction performed in the absence of afforded the intermediate o-RO<sub>2</sub>CC<sub>6</sub>H<sub>4</sub>NHCSNHR along with the cyclized compds. However, similar treatment of I with 2-amino-3-carboethoxypyridine did not give the corresponding glycosylpyridopyrimidine, but glycosylthioureide was obtained in good yield, which could not be cyclized under neutral or acidic conditions. Similar reactions of I, II, and III with 3-aminopyrazole-4-carboxylic acid in the presence of ZnCl<sub>2</sub> afforded corresponding pyrazolopyrimidines V (R = glycosyl) in fair yields.

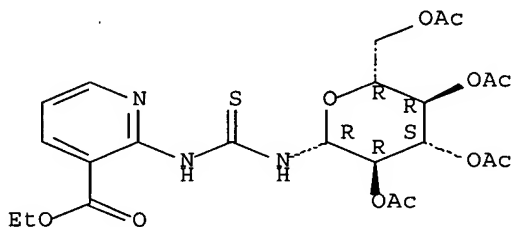
IT 71196-48-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and attempted cyclization of)

RN 71196-48-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



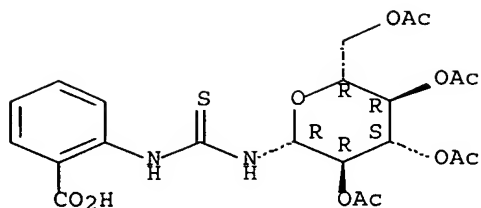
IT 71196-46-8P 71196-47-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 71196-46-8 HCAPLUS

CN Benzoic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)

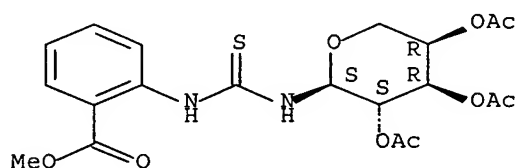
Absolute stereochemistry.



RN 71196-47-9 HCAPLUS

CN Benzoic acid, 2-[[thioxo[(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)amino]methyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 261 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:198371 HCAPLUS Full-text

DOCUMENT NUMBER: 92:198371

TITLE: Preparation of 2-thioxo-2,3-dihydro-1,3,4-benzotriazepines

AUTHOR(S): Richter, P.; Gerisch, Karin

CORPORATE SOURCE: Sekt. Pharm., Ernst-Moritz-Arndt-Univ., Greifswald, DDR-22, Ger. Dem. Rep.

SOURCE: Pharmazie (1979), 34(12), 847-8

CODEN: PHARAT; ISSN: 0031-7144

DOCUMENT TYPE: Journal

LANGUAGE: German

ED Entered STN: 12 May 1984

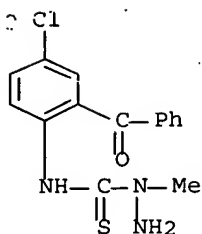
AB The benzotriazepinethione I (R = Me, Z = S) was prepared by the reaction of 2,4-BzClC<sub>6</sub>H<sub>3</sub>NCS with MeNHNH<sub>2</sub> in Et<sub>3</sub>N-dioxane, followed by cyclization of the product with 4-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H in dioxane. I (R = H, Z = S) was prepared by treatment of I (R = H, Z = O) with P<sub>4</sub>S<sub>10</sub> or by heating of 2,5-(H<sub>2</sub>N)ClC<sub>6</sub>H<sub>3</sub>CPh:NNHCSNH<sub>2</sub> in Me<sub>2</sub>SO at 150-5°.

IT 67862-76-4P

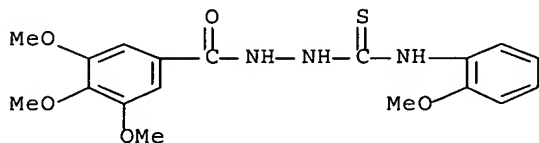
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 67862-76-4 HCAPLUS

CN Hydrazinecarbothioamide, N-(2-benzoyl-4-chlorophenyl)-1-methyl- (9CI) (CA INDEX NAME)

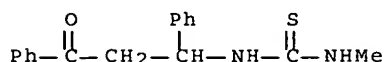


L49 ANSWER 262 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1979:405166 HCAPLUS Full-text  
 DOCUMENT NUMBER: 91:5166  
 TITLE: Synthesis of 5-(3,4,5-trimethoxyphenyl)-4-(substituted aryl)-3-(hydrazinocarbonylmethylthio)-4H-1,2,4-triazoles as possible antiinflammatory agents  
 AUTHOR(S): Jaiswal, Rama K.; Parmar, Surendra S.; Singh, Shiva P.; Barthwal, Jayanti P.  
 CORPORATE SOURCE: Sch. Med., Univ. North Dakota, Grand Forks, ND, 58202, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1979), 16(3), 561-5  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 91:5166  
 ED Entered STN: 12 May 1984  
 AB Nine 4-aryl-3-(hydrazinocarbonylmethylthio)-4H-1,2,4-triazoles I (R = H, 2-Me, 3-Me, 2-MeO, 4-MeO, 4-Cl, 4-Br, 2,4-Me2, 3,4-Me2) were prepared from 3,4,5-(MeO)3C6H4CONHNH2 and the corresponding Ph isothiocyanates via cyclization of II, and were evaluated for their antiprotolytic and antiinflammatory activities.  
 IT 70452-41-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, triazole derivative from)  
 RN 70452-41-4 HCAPLUS  
 CN Benzoic acid, 3,4,5-trimethoxy-, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

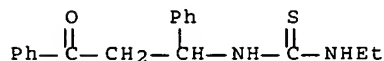


L49 ANSWER 263 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1980:41877 HCAPLUS Full-text  
 DOCUMENT NUMBER: 92:41877  
 TITLE: Thiourea and pyrimidine derivatives from chalcone  
 AUTHOR(S): Weber, F. G.; Pusch, U.; Brauer, B.

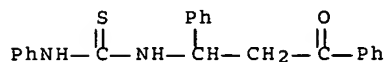
CORPORATE SOURCE:           Sekt. Chem., Humboldt-Univ. Berlin, Berlin, DDR-104,  
                                   Ger. Dem. Rep.  
 SOURCE:                     Pharmazie (1979), 34(7), 443-4  
                                   CODEN: PHARAT; ISSN: 0031-7144  
 DOCUMENT TYPE:           Journal  
 LANGUAGE:                 German  
 OTHER SOURCE(S):         CASREACT 92:41877  
 ED   Entered STN:   12 May 1984  
 AB   Reaction of chalcone with NH<sub>4</sub>SCN gave BzCH<sub>2</sub>CHPhNCS which added RNH<sub>2</sub> (R = Me, Et, Ph, NH<sub>2</sub>, NHPh) to give BzCH<sub>2</sub>CHPhNHCSNHR. Pyrimidinethiones were formed by heating BzCH<sub>2</sub>CHPhNCS with NH<sub>3</sub> or N<sub>2</sub>H<sub>4</sub> or BzCH<sub>2</sub>CHPhNHCSNHMe with NaOEt.  
 IT   72334-61-3P  
       RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and ring closure of)  
 RN   72334-61-3   HCAPLUS  
 CN   Thiourea, N-methyl-N'-(3-oxo-1,3-diphenylpropyl)- (9CI)   (CA INDEX NAME)



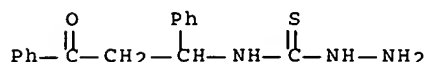
IT   72334-62-4P 72334-63-5P 72334-64-6P  
       72334-65-7P  
       RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN   72334-62-4   HCAPLUS  
 CN   Thiourea, N-ethyl-N'-(3-oxo-1,3-diphenylpropyl)- (9CI)   (CA INDEX NAME)



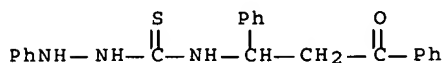
RN   72334-63-5   HCAPLUS  
 CN   Thiourea, N-(3-oxo-1,3-diphenylpropyl)-N'-phenyl- (9CI)   (CA INDEX NAME)



RN   72334-64-6   HCAPLUS  
 CN   Hydrazinecarbothioamide, N-(3-oxo-1,3-diphenylpropyl)- (9CI)   (CA INDEX NAME)

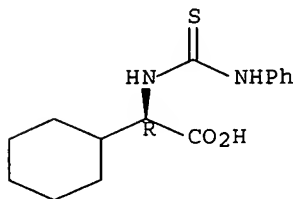


RN 72334-65-7 HCAPLUS  
CN Hydrazinecarbothioamide, N-(3-oxo-1,3-diphenylpropyl)-2-phenyl- (9CI) (CA INDEX NAME)



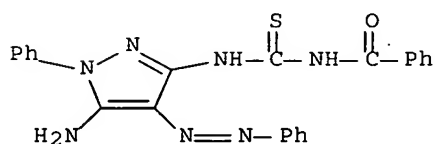
L49 ANSWER 264 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1980:76398 HCAPLUS Full-text  
DOCUMENT NUMBER: 92:76398  
TITLE: A new synthesis of (S) - (+). -1,5-cyclotrimethylene-3-phenyl-2-thiohydantoin  
AUTHOR(S): Poupaert, Jacques H.; Lhoest, Georges  
CORPORATE SOURCE: Sch. Pharm., Univ. Louvain, Brussels, B-1200, Belg.  
SOURCE: Bulletin des Societes Chimiques Belges (1979), 88(5), 339-42  
CODEN: BSCBAG; ISSN: 0037-9646  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 92:76398  
ED Entered STN: 12 May 1984  
AB The title compound (I) was obtained in 39% overall yield by treating proline with PhNCS and thermally cyclizing the phenylthiohydantoic acid II. (R)-(+) -5-Cyclohexyl-3-phenyl-2-thiohydantoin was similarly prepared in 54% yield from (R)-(-)-cyclohexylglycine.  
IT 72334-00-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and thermal cyclization of)  
RN 72334-00-0 HCAPLUS  
CN Cyclohexanecarboxylic acid,  $\alpha$ -[[[(phenylamino)thioxomethyl]amino]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

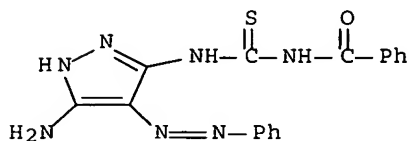


L49 ANSWER 265 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1979:439437 HCAPLUS Full-text  
DOCUMENT NUMBER: 91:39437  
TITLE: Reactions with cyclic amidines. III: Synthesis of some new fused pyrazole derivatives  
AUTHOR(S): Elnagdi, Mohamed Hilmy; Kandeel, Ezzat Mohamed; Sadek,

Kamal Usef  
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt  
 SOURCE: Zeitschrift fuer Naturforschung, Teil B: Anorganische  
 Chemie, Organische Chemie (1979), 34B(2),  
 275-9  
 CODEN: ZNBAD2; ISSN: 0340-5087  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 91:39437  
 ED Entered STN: 12 May 1984  
 AB Diazotized I [R, R1, Z = H, OH, H2 (II); H, NH2, H2 (III)] were cyclized with  
 active methylene compds. [AcCH2CO2Et, NCCH2CO2Et, CH2(CN)2] to give IV (R1 as  
 above; R2, R3 = Me, CO2Et; NH2, CO2Et; NH2, CN, resp.). Diazotized II and  $\beta$ -  
 naphthol gave I (R = H, R1 = OH, Z = 2-hydroxy-1-naphthylimino). Attempted  
 addition reaction of acrylonitrile with II and III gave V [R1, XX1 = OH, N2;  
 NH2, CH2CH(CN), resp.]. II and III were treated with BzNCS to give I (R = H  
 (VI), Ph (VII); R1 = BzNHC(S)NH; Z = H2). On refluxing in pyridine, VI  
 readily cyclized to give VIII, but VII was hydrolyzed to give I (R = Ph, R1 =  
 H2NC(S)NH, Z = H2).  
 IT 70649-16-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)  
 RN 70649-16-0 HCAPLUS  
 CN Benzamide, N-[[[5-amino-1-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

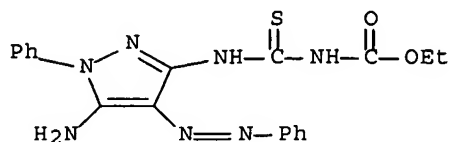


IT 70649-15-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and thermal cyclization of, pyrazolotriazine derivative  
 from)  
 RN 70649-15-9 HCAPLUS  
 CN Benzamide, N-[[[5-amino-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]-  
 (9CI) (CA INDEX NAME)



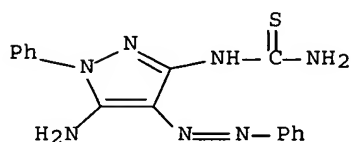
IT 70649-17-1P 70649-19-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 70649-17-1 HCAPLUS

precursor Carbamic acid; [[5-amino-1-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]-ethyl ester. (9CI) (CA INDEX NAME)



RN 70649-19-3 HCAPLUS

CN Thiourea, [5-amino-1-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



L49 ANSWER 266 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:110925 HCAPLUS Full-text

DOCUMENT NUMBER: 92:110925

TITLE: Bisheterocycles. Part VI. Synthesis of bis(4-arylthiosemicarbazido)-, bis(2-(arylamino)-1,3,4-thiadiazol-5-yl)-, bis(4-aryl-3-thio-1,2,4-triazol-5-yl)-, bis(4-aryl-3-mercapto-1,2,4-triazol-5-yl)-, and bis(4-aryl-3-sulfonyl-1,2,4-triazol-5-yl)alkanes and -alkenes

AUTHOR(S): Ram, Vishnu Ji; Mishra, Lallan; Pandey, H. N.; Mishra, Saraswati

CORPORATE SOURCE: Dep. Chem., Satish Chandra Coll., Ballia, India

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1979), 18B(2), 203-4

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 92:110925

ED Entered STN: 12 May 1984

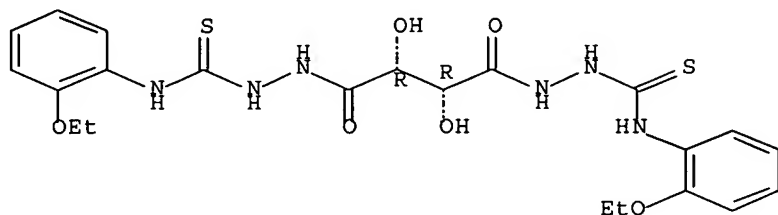
AB Various bis(4-arylthiosemicarbazido)-, bis(2-arylamino-1,3,4-thiadiazol-5-yl)-, bis(4-aryl-3-thio-1,2,4-triazol-5-yl)-, bis(4-aryl-3-mercapto-1,2,4-triazol-5-yl)- and bis(4-aryl-3-sulfonyl-1,2,4-triazol-5-yl)alkanes and -alkenes were prepared in order to evaluate their pesticidal activities. Thus, cyclization of (PhCH<sub>2</sub>NHCSNHNHCOCH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub> with 8% NaOH gave the trimethyleneditriazole I. Several compds. had herbicidal, insecticidal and fungicidal activities.

IT 72743-55-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 72743-55-6 HCAPLUS  
 CN Butanedioic acid, 2,3-dihydroxy- (2R,3R)-, bis[2-[[[2-ethoxyphenyl)amino]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 267 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1979:168541 HCAPLUS Full-text  
 DOCUMENT NUMBER: 90:168541  
 TITLE: The synthesis of a pyrido[3,4-d]pyrimidine analog of pteric acid  
 AUTHOR(S): Maguire, James H.; McKee, Robert L.  
 CORPORATE SOURCE: William R. Kenan, Jr. Lab. Chem., Univ. North Carolina, Chapel Hill, NC, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1979), 16(1), 133-6  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 12 May 1984

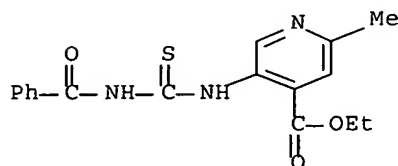
AB Et 5-amino-2-methylpyridine-4-carboxylate (I) was prepared from Et acetopyruvate and O<sub>2</sub>NCH<sub>2</sub>CONH<sub>2</sub>. Condensation of I with BzNHCN gave 2-amino-3-benzoyl-6-methylpyrido[3,4-d]pyrimidin-4(3H)one (II), which could be hydrolyzed in alkali to 2-amino-4-hydroxy-6-methylpyrido[3,4-d]pyrimidine. Free radical bromination of II in BrCCl<sub>3</sub> gave a mixture of the bromo- and chloromethyl- derivs. which on fusion with 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>Et and alkaline hydrolysis gave the pteric acid analog III.

IT 70026-91-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 70026-91-4 HCAPLUS

CN 4-Pyridinecarboxylic acid, 5-[[[2-(benzoylamino)thioxomethyl]amino]-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)





ACCESSION NUMBER: 1980:129176 HCAPLUS Full-text  
 DOCUMENT NUMBER: 92:129176  
 TITLE: Synthesis and study on new spirosteroids. Part I  
 AUTHOR(S): Solyom, Sandor; Zubovics, Zoltan; Toldy, Lajos  
 CORPORATE SOURCE: Inst. Drug Res., Budapest, Hung.  
 SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1979), 100(1-4), 89-99  
 CODEN: ACASA2; ISSN: 0001-5407

DOCUMENT TYPE: Journal

LANGUAGE: German

ED Entered STN: 12 May 1984

AB Treatment of spiro[androstene-oxirane] I with MeNH<sub>2</sub> gave (aminomethyl)androst-5-en-17-ol II, which reacted with RNCS (R = 2,6-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, Me, PhCH<sub>2</sub>, PhCHMe, Bz) to give the thioureas III. 17-Spirooxirane derivs. of 3-methoxyestra-2,5(10)-diene, 3-methoxy-1,3,5(10),8-tetraene, and 13-ethyl-3-methoxygona-2,5(10)-diene underwent analogous transformations. Cyclocondensation reactions of III in pyridine containing iodine gave mixts. of spirooxathiazines IV and spirooxazolidines V. IV and V possessed significant antialdosterone activities but the activities were less than that of Spironolactone.

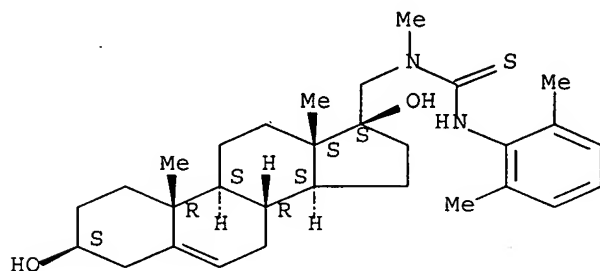
IT 73047-89-9P 73047-92-4P 73047-93-5P  
73047-94-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 73047-89-9 HCAPLUS

CN Thiourea, N-[[[(3 $\beta$ ,17 $\beta$ )-3,17-dihydroxyandrost-5-en-17-yl]methyl]-N'-(2,6-dimethylphenyl)-N-methyl- (9CI) (CA INDEX NAME)

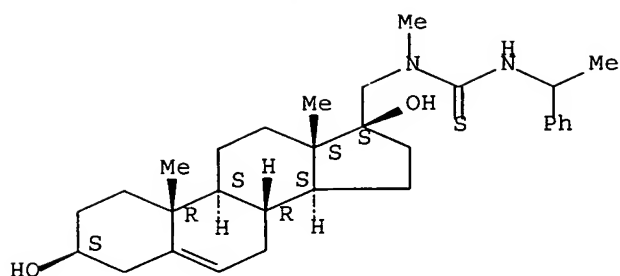
Absolute stereochemistry.



RN 73047-92-4 HCAPLUS

CN Thiourea, N-[[[(3 $\beta$ ,17 $\beta$ )-3,17-dihydroxyandrost-5-en-17-yl]methyl]-N-methyl-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)

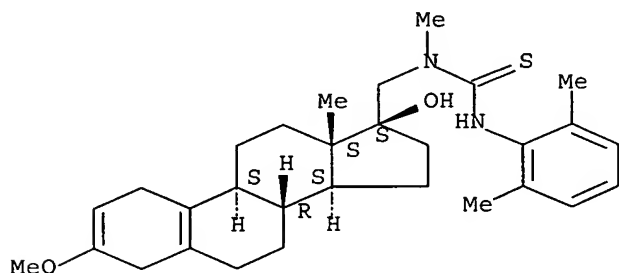
Absolute stereochemistry.



RN 73047-93-5 HCAPLUS

CN Thiourea, N'-(2,6-dimethylphenyl)-N-[[ (17 $\beta$ )-17-hydroxy-3-methoxyestra-2,5(10)-dien-17-yl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

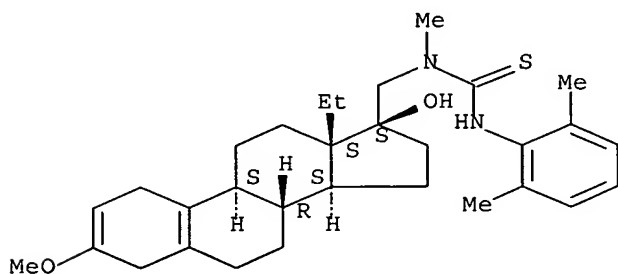
Absolute stereochemistry.



RN 73047-94-6 HCAPLUS

CN Thiourea, N'-(2,6-dimethylphenyl)-N-[[ (17 $\beta$ )-13-ethyl-17-hydroxy-3-methoxygona-2,5(10)-dien-17-yl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



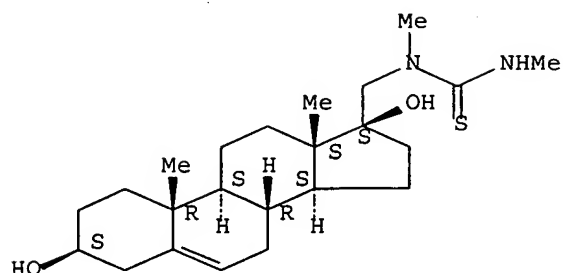
IT 73047-90-2P 73047-91-3P 73052-85-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 73047-90-2 HCAPLUS

CN Thiourea, N-[[ (3 $\beta$ ,17 $\beta$ )-3,17-dihydroxyandrost-5-en-17-yl]methyl]-N,N'-dimethyl- (9CI) (CA INDEX NAME)

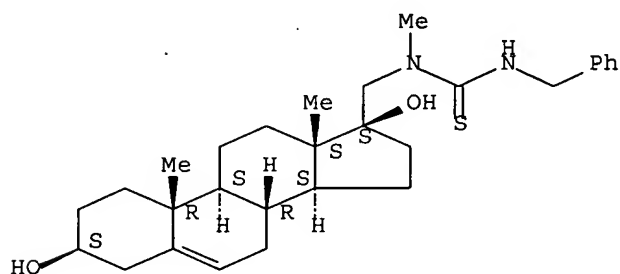
100% Absolute stereochemistry.



RN 73047-91-3 HCAPLUS

CN Thiourea, N-[[[(3 $\beta$ ,17 $\beta$ )-3,17-dihydroxyandrost-5-en-17-yl)methyl]-N-methyl-N'-(phenylmethyl)-(9CI)] (CA INDEX NAME)

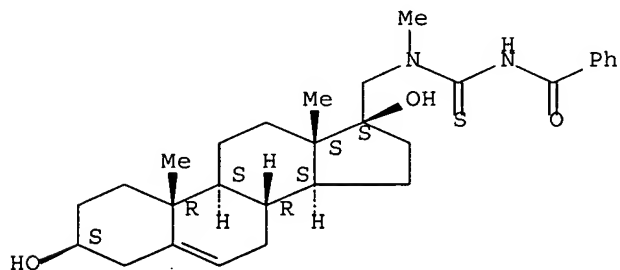
Absolute stereochemistry.



RN 73052-85-4 HCAPLUS

CN Benzamide, N-[[[[[(3 $\beta$ ,17 $\beta$ )-3,17-dihydroxyandrost-5-en-17-yl)methyl)methylamino]thioxomethyl]- (9CI)] (CA INDEX NAME)

Absolute stereochemistry.



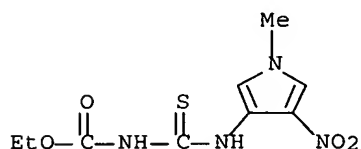
L49 ANSWER 269 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:6454 HCAPLUS Full-text

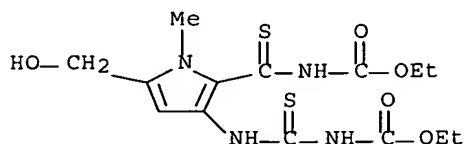
DOCUMENT NUMBER: 92:6454

TITLE: The synthesis and carbon-13 NMR spectra

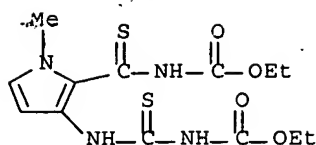
pyrrolothiazoles and their precursors.  
 Bromine-induced cyclization of pyrrolylthioureas  
 AUTHOR(S): Grehn, Leif  
 CORPORATE SOURCE: Inst. Chem., Univ. Uppsala, Uppsala, S-751 21, Swed.  
 SOURCE: Chemica Scripta (1979), 13(2-3), 78-95  
 CODEN: CSRPB9; ISSN: 0004-2056  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 92:6454  
 ED Entered STN: 12 May 1984  
 AB Several differently substituted pyrrolylthiourea derivs. (e.g. I) have been prepared by the action of acyl isothiocyanates on the corresponding aminopyrroles. Bromine-induced ring closure of selected pyrrolylthioureas in acetic acid or tri-Me phosphate yielded 3 possible isomers of the hitherto unknown pyrrolothiazoles (e.g. II). This reaction has wide applicability. <sup>13</sup>C NMR parameters were determined for all new compds. and the direct <sup>13</sup>C-<sup>1</sup>H coupling consts. in the pyrrole moiety were utilized to distinguish α- and β-carbons.  
 IT 72082-36-1 72083-37-5 72089-80-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (bromine-induced cyclization of, pyrrolothiazole derivative by)  
 RN 72082-36-1 HCAPLUS  
 CN Carbamic acid, [[(1-methyl-4-nitro-1H-pyrrol-3-yl)amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 72083-37-5 HCAPLUS  
 CN Carbamic acid, [[3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-5-(hydroxymethyl)-1-methyl-1H-pyrrol-2-yl]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

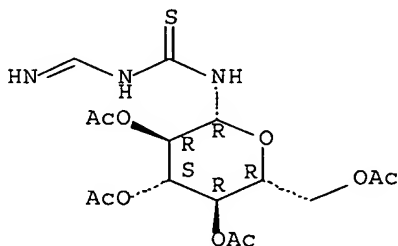


RN 72089-80-6 HCAPLUS  
 CN Carbamic acid, [[3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-1-methyl-1H-pyrrol-2-yl]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



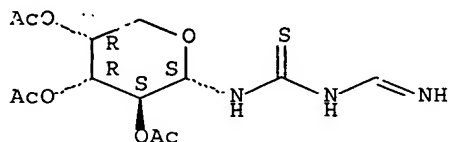
L49 ANSWER 270 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1980:198664 HCAPLUS Full-text  
 DOCUMENT NUMBER: 92:198664  
 TITLE: Facile syntheses of 1,2,4-triazole and s-triazine glycosides from glycosyl isothiocyanates  
 AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sato, Osamu  
 CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan  
 SOURCE: Nucleic Acids Symposium Series (1979), 6(Symp. Nucleic Acids Chem., 7th), S13-S16  
 CODEN: NACSD8; ISSN: 0261-3166  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Reaction of glycosyl isothiocyanates, I, II, or III (R not defined), with acyl or aroyl hydrazine gave the corresponding glycosyl thiosemicarbazides, which were treated with Ac2O-H3PO4 to yield 1,2,4-triazole nucleosides. Similar treatment of I, II, or III with amidino compds. gave glycosylisothiobiurets, followed by N-bromosuccinimide oxidation to give 1,2,4-triazole nucleosides. Treatment of glycosylisothiobiurets with HC(OEt)3 gave the corresponding s-triazine nucleosides.  
 IT 73556-39-5DP, derivs. 73556-40-8DP, derivs.  
73556-41-9DP, derivs.  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 73556-39-5 HCAPLUS  
 CN Thiourea, (aminomethylene) (2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 73556-40-8 HCAPLUS  
 CN Thiourea, (aminomethylene) (2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl) - (9CI) (CA INDEX NAME)

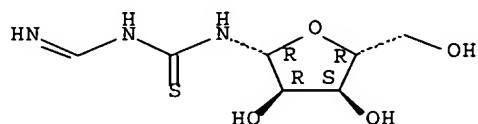
Absolute stereochemistry.



RN 73556-41-9 HCAPLUS

CN Thiourea, (aminomethylene)- $\beta$ -D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



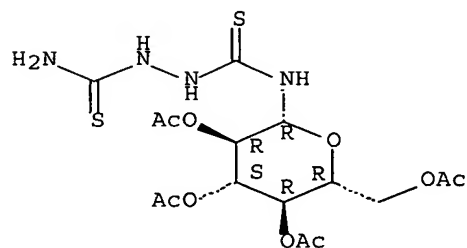
IT 18604-48-3P 73555-98-3P 73555-99-4DP, derivs.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with Me iodide)

RN 18604-48-3 HCAPLUS

CN 1,2-Hydrazinedicarbothioamide, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

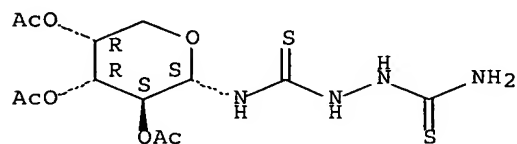
Absolute stereochemistry.



RN 73555-98-3 HCAPLUS

CN 1,2-Hydrazinedicarbothioamide, N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

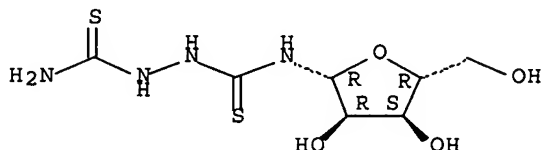
Absolute stereochemistry.



RN 73555-99-4 HCAPLUS

CN 1,2-Hydrazinedicarbothioamide, N- $\beta$ -D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



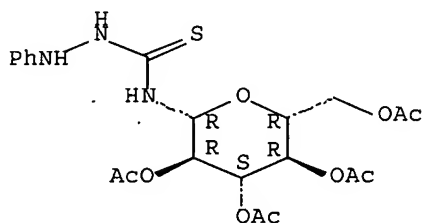
IT 69435-07-0P 73556-04-4P 73556-05-5P  
73556-06-6DP, derivs. 73555-07-7P 73556-08-8DP  
, derivs.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with Me iodide or with phosgene)

RN 69435-07-0 HCAPLUS

CN Hydrazinecarbothioamide, 2-phenyl-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

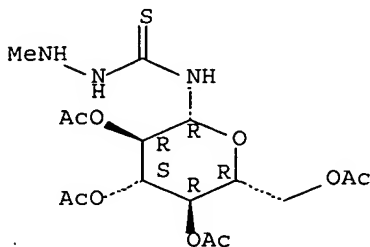
Absolute stereochemistry.



RN 73556-04-4 HCAPLUS

CN Hydrazinecarbothioamide, 2-methyl-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

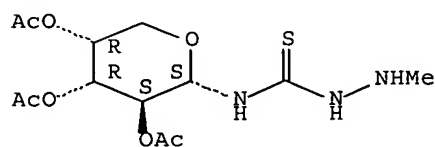
Absolute stereochemistry.



RN 73556-05-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-methyl-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

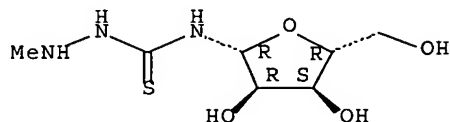
Absolute stereochemistry.



RN 73556-06-6 HCAPLUS

CN Hydrazinecarbothioamide, 2-methyl-N- $\beta$ -D-ribofuranosyl- (9CI) (CA INDEX NAME)

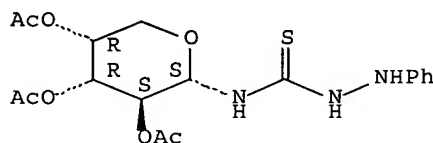
Absolute stereochemistry.



RN 73556-07-7 HCAPLUS

CN Hydrazinecarbothioamide, 2-phenyl-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

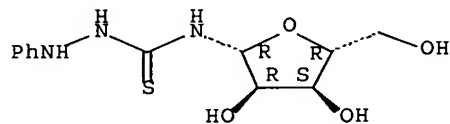
Absolute stereochemistry.



RN 73556-08-8 HCAPLUS

CN Hydrazinecarbothioamide, 2-phenyl-N- $\beta$ -D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 69435-06-9P 73556-24-8P 73556-25-9P



73556-26-0DP, derivs. 73556-27-1P 73556-28-2DP

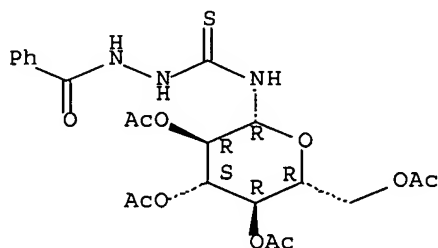
, derivs.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and reactions of)

RN 69435-06-9 HCAPLUS

CN Benzoic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

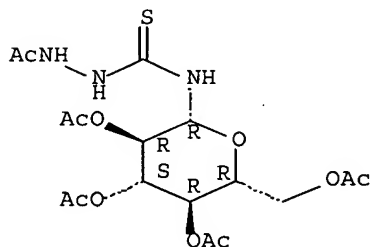
Absolute stereochemistry.



RN 73556-24-8 HCAPLUS

CN Acetic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

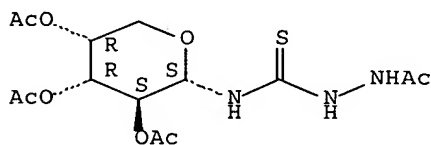
Absolute stereochemistry.



RN 73556-25-9 HCAPLUS

CN Acetic acid, 2-[thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

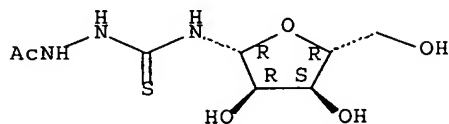


RN 73556-26-0 HCAPLUS

CN Acetic acid, 2-[(β-D-ribofuranosylamino)thioxomethyl]hydrazide (9CI)

(CA INDEX NAME)

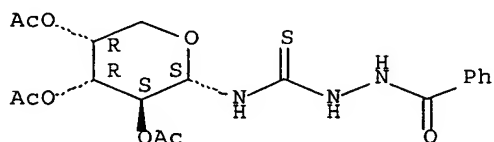
Absolute stereochemistry.



RN 73556-27-1 HCAPLUS

CN Benzoic acid, 2-[thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

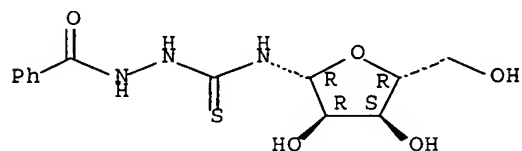
Absolute stereochemistry.



RN 73556-28-2 HCAPLUS

CN Benzoic acid, 2-[(β-D-ribofuranosylamino)thioxomethyl]hydrazide (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



IT 73556-85-1DP, derivs. 73556-86-2P 73556-87-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 73556-85-1 HCAPLUS

CN Acetic acid, acetyl-2-[(β-D-ribofuranosylamino)thioxomethyl]hydrazide  
(9CI) (CA INDEX NAME)

CM 1

CRN 73556-26-0

CMF C8 H15 N3 O5 S

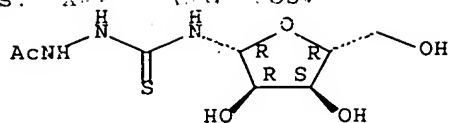
Absolute stereochemistry.

Compounds.

XX

64-19-7

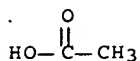
Studies on heterocyclic compounds.



CM 2

CRN 64-19-7

CMF C2 H4 O2



RN 73556-86-2 HCAPLUS

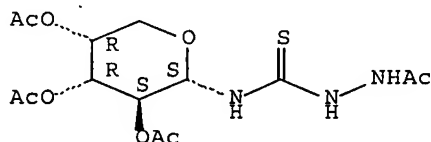
CN Acetic acid, acetyl[thioxo[(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)amino]methyl]hydrazide (9CI) (CA INDEX NAME)

CM 1

CRN 73556-25-9

CMF C14 H21 N3 O8 S

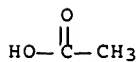
Absolute stereochemistry.



CM 2

CRN 64-19-7

CMF C2 H4 O2



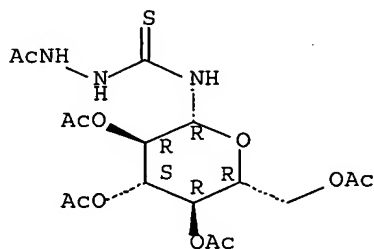
RN 73556-87-3 HCAPLUS

CN Acetic acid, acetyl[[2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

CM 1

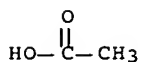
CRN 73556-24-8  
CMF C17 H25 N3 O10 S

Absolute stereochemistry.

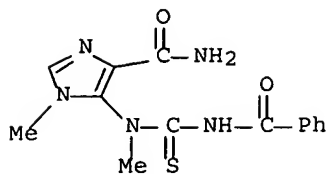


CM 2

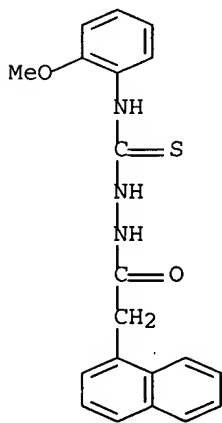
CRN 64-19-7  
CMF C2 H4 O2



L49 ANSWER 271 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1978:509332 HCAPLUS Full-text  
DOCUMENT NUMBER: 89:109332  
TITLE: Synthesis of 3,9-dimethylguanine and its conversion  
into 3-methyl-wye (Yt base), a model substance of  
wyosine, wybutosine and wybutoxine  
AUTHOR(S): Ienaga, Kazuharu; Pfleiderer, Wolfgang  
CORPORATE SOURCE: Fachber. Chem., Univ. Konstanz, Konstanz, Fed. Rep.  
Ger.  
SOURCE: Tetrahedron Letters (1978), (16), 1447-50  
CODEN: TELEAY; ISSN: 0040-4039  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
ED Entered STN: 12 May 1984  
AB 3,9-Dimethylguanine (I), prepared from the carboxamide II by sequential  
treatment with BzNCS, MeI-NaOH, and NH4OH, reacted with MeCOCH2Br in DMSO in  
the presence of K2CO3 to give 76% 3-methyl-wye (III). Comparison of the UV  
spectrum of III with wyosine (IV) gave evidence for attachment of the  
ribofuranosyl moiety at N-3 in IV.  
IT 67513-74-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation, alkylation, and cyclization of)  
RN 67513-74-0 HCAPLUS  
CN 1H-Imidazole-4-carboxamide, 5-[[[(benzoylamino)thioxomethyl]methylamino]-1-  
methyl- (9CI) (CA INDEX NAME)



L49 ANSWER 272 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1979:38846 HCAPLUS Full-text  
 DOCUMENT NUMBER: 90:38846  
 TITLE: Synthesis of 5-(1-naphthylmethyl)-4-aryl-s-triazole-3-thiol/yl-thioglycolic acids as possible anti-inflammatory agents  
 AUTHOR(S): Kothari, P. J.; Kishore, V.; Stenberg, V. I.; Parmar, S. S.  
 CORPORATE SOURCE: Dep. Chem., Univ. North Dakota, Grand Forks, ND, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1978), 15(7), 1101-4  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 90:38846  
 ED Entered STN: 12 May 1984  
 AB Triazole-3-thiols I (R = H, 4-halo, 2-Me, 2-MeO; R1 = SH) and triazolethioglycolic acid I (R = H, 4-halo, 2-Me, 2-MeO; R1 = SCH2CO2H) were prepared as possible antiinflammatory agents (no data). Their IR, NMR, and mass spectra are reported.  
 IT 60919-09-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 60919-09-7 HCAPLUS  
 CN 1-Naphthaleneacetic acid, 2-[[[(2-methoxyphenyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 273 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:72118 HCAPLUS Full-text

DOCUMENT NUMBER: 90:72118

TITLE: Synthesis and antibacterial activity of some phenoxyacetyl thiosemicarbazides, substituted 1,3,4-oxadiazoles, 1,2,4-triazoles and alkyl/phenyl carbamates of substituted 1,3,4-oxadiazole-2-thiones

AUTHOR(S): Sen Gupta, Anil K.; Bajaj, O. P.; Chandra, Umesh

CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, India

SOURCE: Journal of the Indian Chemical Society (1978), 55(9), 962-4

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 90:72118

ED Entered STN: 12 May 1984

AB R1C6H4OCH2CONHNHCSNHC6H4R2 I (R1 = 4-Cl, 4-Me, R2 = 2-, 4-MeO, 3-, 4-Me, H), prepared in 65-88% yields by addition of a hydrazine to an isothiocyanate, were cyclized by I-KI to give 50-64% II and by 2N NaOH to yield 70-8% III. Addnl. obtained were 55-90% IV (R1 = Ph, Me, Pr, Bu, R2 = 4-Cl, 2-, 4-Me, 2,4-Cl2). I-IV were effective bactericides against E. coli, S. aureus, Salmonella typhi, and Bacillus megaterium.

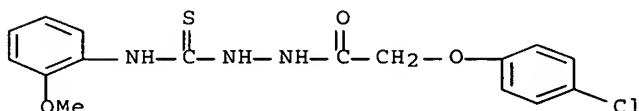
IT 69026-46-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 69026-46-6 HCAPLUS

CN Acetic acid, (4-chlorophenoxy)-, 2-[[ (2-methoxyphenyl) amino] thioxomethyl] hydrazide (9CI) (CA INDEX NAME)

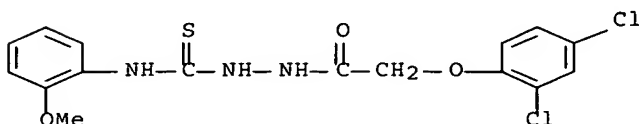


IT 69026-41-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 69026-41-1 HCAPLUS

CN Acetic acid, (2,4-dichlorophenoxy)-, 2-[[ (2-methoxyphenyl) amino] thioxomethyl] hydrazide (9CI) (CA INDEX NAME)

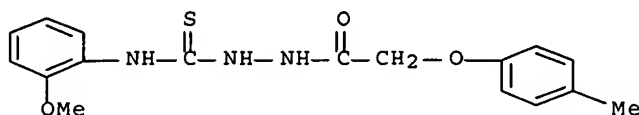


IT 69026-50-2P

and iv., ~~For~~ RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
Preparation); RACT (Reactant or reagent)  
 (preparation, cyclization, and bactericidal activity of)

RN 69026-50-2 HCAPLUS

CN Acetic acid, (4-methylphenoxy)-, 2-[[ (2-methoxyphenyl) amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 274 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:6346 HCAPLUS Full-text

DOCUMENT NUMBER: 90:6346

TITLE: Benzothieno[2,3-d]thiazolo[3,2-a]pyrimidines

AUTHOR(S): Gakhar, H. K.; Madan, Arun; Khanna, Anil; Kumar, Naresh

CORPORATE SOURCE: Dep. Chem., Panjab Univ., Chandigarh, India

SOURCE: Journal of the Indian Chemical Society (1978), 55(7), 705-6

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 90:6346

ED Entered STN: 12 May 1984

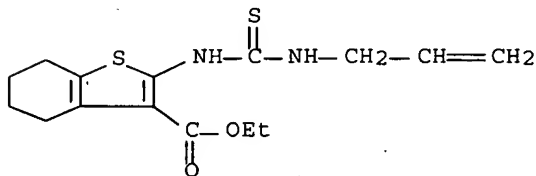
AB Benzothiofenamine I (R = H) underwent condensation with allyl isothiocyanate to give an isothioure derivative (I; R = HSC:NCH<sub>2</sub>CH:CH<sub>2</sub>) which was cyclized by treatment with HCl or Br<sub>2</sub> to give benzothieno[2,3-d]thiazolo[2,3-a]pyrimidines II (R<sub>1</sub> = H or Br). II (R<sub>1</sub> = Br) underwent dehydrobromination with alkaline KOH and the resulting exocyclic methylene compound added Br.

IT 42062-89-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

RN 42062-89-5 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[ (2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 275 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:55223 HCAPLUS Full-text

DOCUMENT NUMBER: 90:55223

TITLE: Studies on heterocyclic compounds. XXII. C-glycosyl nucleosides. X. Syntheses of glycosylaminopyrimido[4,5-e]-1,3,4-thiadiazines and their desulfurization

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Kudo, Emi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan

SOURCE: Journal of Carbohydrates, Nucleosides, Nucleotides (1978), 5(4), 329-41  
CODEN: JCNAF; ISSN: 0094-0585

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

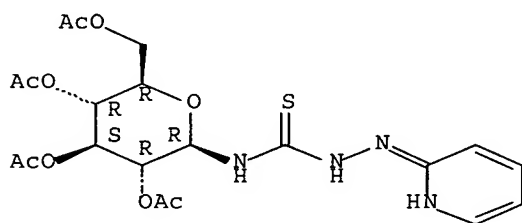
AB Reaction of RNCS (R = 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl, 2,3,4-tri-O-acetyl-arabinopyranosyl, 2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl) with 2-hydrazinopyridine or 6-hydrazino-1,3-dimethyluracil gave glycosylhydrazinethiocarboxamides I and II, resp. in excellent yield. Attempted cyclization of I by N-bromosuccinimide failed, but cyclization of II by N-bromosuccinimide gave glycosylaminopyrimido[4,5-e]-1,3,4-thiadiazines III. Ring contraction of III through desulfurization gave glycosylaminopyrazolo[3,4-d]pyrimidines IV.

IT 68977-93-5P 68977-94-6P 69018-43-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and attempted cyclization of)

RN 68977-93-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

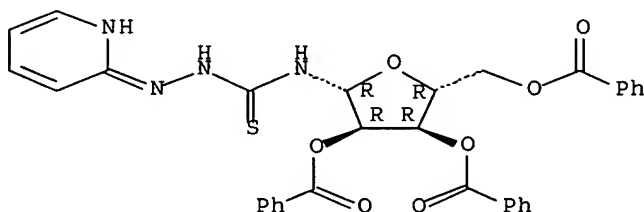
Absolute stereochemistry.  
Double bond geometry unknown.



RN 68977-94-6 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

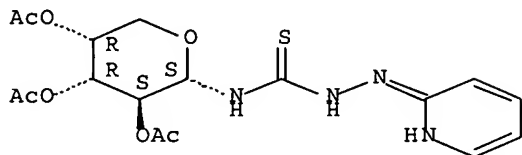




RN 69018-43-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.



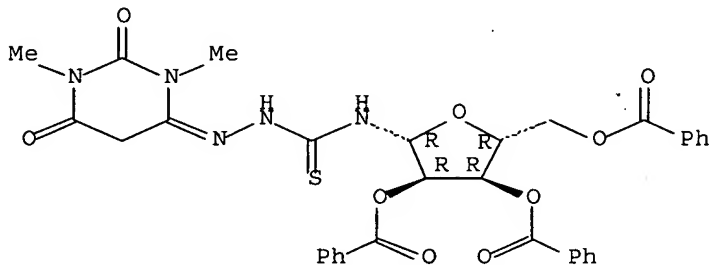
IT 68977-95-7P 69018-41-3P 69018-42-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, and cyclization to glycosylaminodioxopyrimido[4,5-e]-1,3,4-thiadiazine)

RN 68977-95-7 HCAPLUS

CN Hydrazinecarbothioamide, 2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-N-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI)  
(CA INDEX NAME)

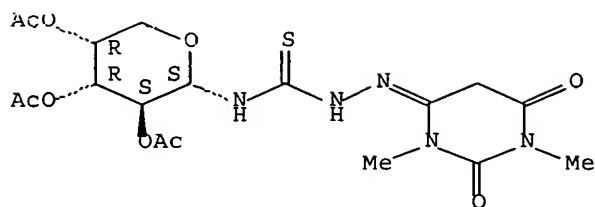
Absolute stereochemistry.  
Double bond geometry unknown.



RN 69018-41-3 HCAPLUS

CN Hydrazinecarbothioamide, 2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

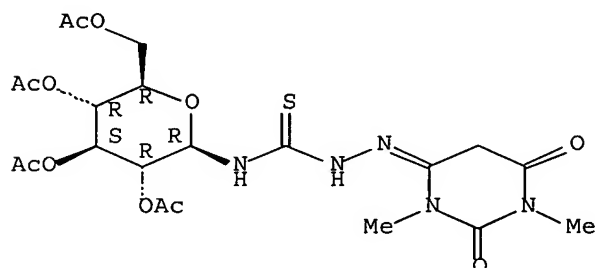


RN 69018-42-4 HCAPLUS

CN Hydrazinecarbothioamide, N-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)-2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



L49 ANSWER 276 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:186870 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 90:186870

TITLE: Syntheses and reactivity of 1,2,4-thiadiazolo[2,3-a]pyridines and some related systems

AUTHOR(S): Vercek, Bojan; Stanovnik, Branko; Tisler, Miha

CORPORATE SOURCE: Dep. Chem., Univ. Ljubljana, Ljubljana, Yugoslavia

SOURCE: Heterocycles (1978), 11, 313-18

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 90:186870

ED Entered STN: 12 May 1984

AB The pyridylthiourea derivs. I (R = OH, OEt, NH<sub>2</sub>) were cyclized by Br to give the thiadiazolopyridines II (R<sub>1</sub> = CH<sub>2</sub>COR). 1-(2-Pyridyl)-3-(dimethylaminomethylene)thiourea similarly gave II (R<sub>1</sub> = CHO), which was cleaved to give 2-(cyanamino)pyridine. Cyclization of the triazolopyrazinylthiourea III (R<sub>2</sub> = CSNHCO<sub>2</sub>Et) by Br gave IV, which with NaOH gave III (R = CSNH<sub>2</sub>, CN).

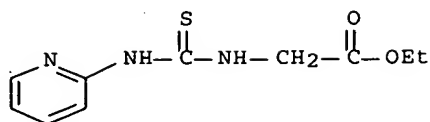
IT [70121-51-6P](#) [70121-52-7P](#) [70121-53-8P](#)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

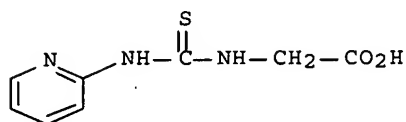
(preparation and cyclization of, thiadiazolopyridine derivative from)

RN 70121-51-6 HCAPLUS

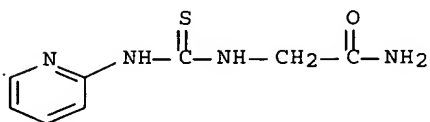
CN Glycine, N-[(2-pyridinylamino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



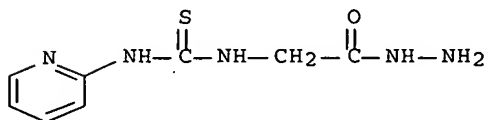
RN 70121-52-7 HCAPLUS  
 CN Glycine, N-[(2-pyridinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



RN 70121-53-8 HCAPLUS  
 CN Acetamide, 2-[[[(2-pyridinylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



IT 70121-54-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and cyclization with hydrazine hydrate, triazene  
 derivative from)  
 RN 70121-54-9 HCAPLUS  
 CN Glycine, N-[(2-pyridinylamino)thioxomethyl]-, hydrazide (9CI) (CA INDEX NAME)



L49 ANSWER 277 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1979:138131 HCAPLUS Full-text  
 DOCUMENT NUMBER: 90:138131  
 TITLE: Synthesis of nucleoside analogs from hydrazine  
 derivatives  
 AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Sakaguchi, Masakazu

CORPORATE SOURCE: Sch. Pharm: Sci., Kitasato Univ., Tokyo, Japan  
SOURCE: Nucleic Acids Research, Special Publication (1978), 5(Symp. Nucleic Acids Chem., 6th), 251-4  
CODEN: NARPD6; ISSN: 0309-1872

DOCUMENT TYPE: Journal  
LANGUAGE: English

ED Entered STN: 12 May 1984

AB Reaction of 6-hydrazino-1,3-dimethyluracil (I) with RNCS (R = Q, Q1, Q2) gave the glycosyl thiosemicarbazides II in good yield, which was cyclized to pyrimidothiadiazines III with N-bromosuccinimide oxidation III were converted to pyrazolopyrimidines by thermal desulfurization. Reaction of D-arabinose, D-glucose, L-arabinose, D-mannose, D-fructose, L-sorbose, and D-glucuronolactone with I gave hydrazones in good yield, which were converted to pyrimidopyridazines by cyclodehydration.

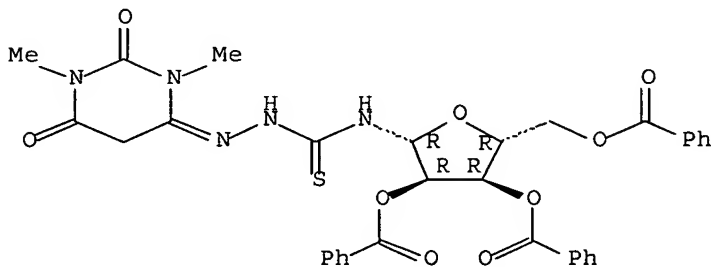
IT 68977-95-7P 69018-41-3P 69018-42-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and oxidative cyclization of)

RN 68977-95-7 HCAPLUS

CN Hydrazinecarbothioamide, 2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-N-(2,3,5-tri-O-benzoyl-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)

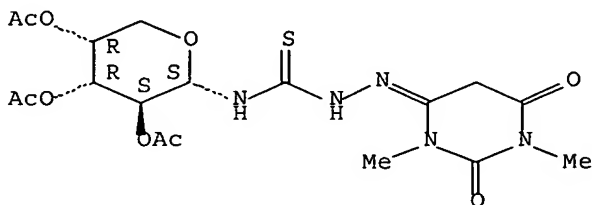
Absolute stereochemistry.  
Double bond geometry unknown.



RN 69018-41-3 HCAPLUS

CN Hydrazinecarbothioamide, 2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-N-(2,3,4-tri-O-acetyl-α-D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

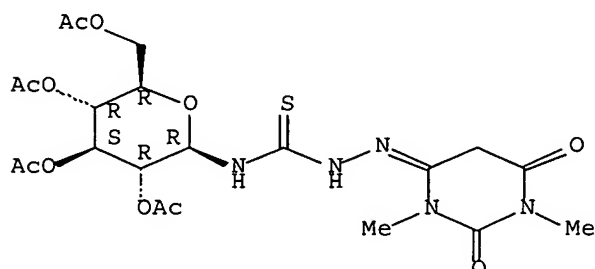


RN 69018-42-4 HCAPLUS

CN Hydrazinecarbothioamide, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



IT 68977-93-5P 68977-94-6P 69018-43-5P

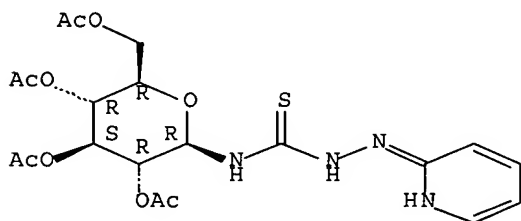
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 68977-93-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

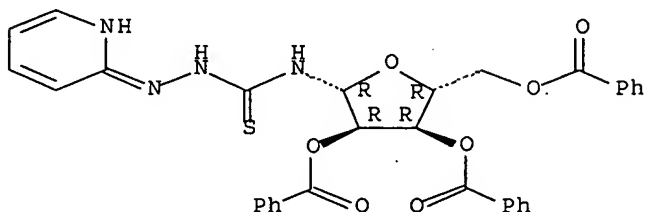


RN 68977-94-6 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

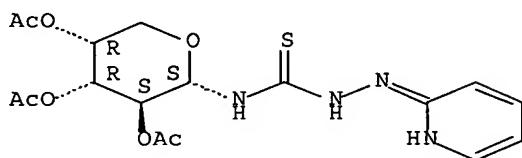


RN 69018-43-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



L49 ANSWER 278 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:439764 HCAPLUS Full-text

DOCUMENT NUMBER: 91:39764

TITLE: Syntheses of nucleoside analogs using glycosyl isothiocyanate

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan

SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu, 21st (1978), 221-8. Hokkaido Daigaku Nogakubu: Sapporo, Japan.

CODEN: 39NQAF

DOCUMENT TYPE: Conference

LANGUAGE: Japanese

ED Entered STN: 12 May 1984

AB Various nucleoside analogs containing isothiazole, isothiazolopyrimidine, fused imidazole, pyrimidothiadiazine, pyrazolopyrimidine, triazole, or triazine moieties were prepared by using RNCS (R = I, II, or III). E.g., reaction of RNCS and MeC(NH<sub>2</sub>):CHCO<sub>2</sub>Et gave (glycosylamino)isothiazoles IV and MeC(NH<sub>2</sub>):C(SCNHR)CO<sub>2</sub>Et (V). V readily cyclized to IV.

IT 68977-93-5P 69435-06-9P 69435-07-0P  
69435-29-6P

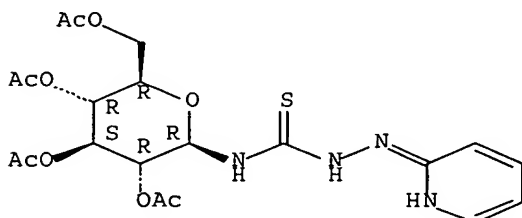
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 68977-93-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

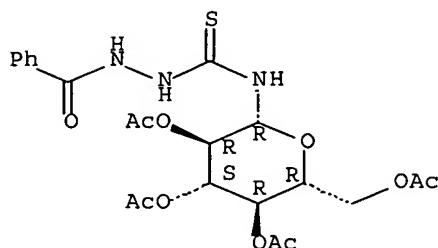
Double bond geometry unknown.



RN 69435-06-9 HCAPLUS

CN Benzoic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

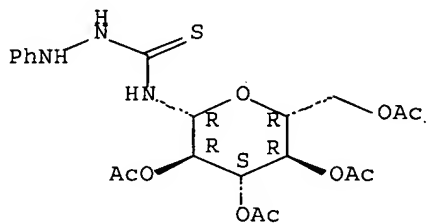
Absolute stereochemistry.



RN 69435-07-0 HCAPLUS

CN Hydrazinecarbothioamide, 2-phenyl-N-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

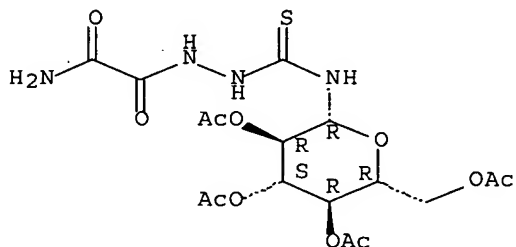
Absolute stereochemistry.



RN 69435-29-6 HCAPLUS

CN Acetic acid, aminooxo-, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 69435-12-7P

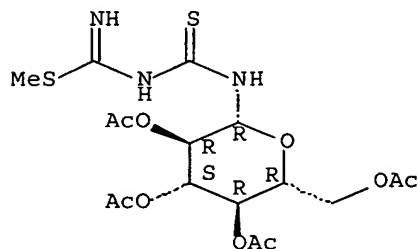
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with tri-Et orthoformate)

RN 69435-12-7 HCAFLUJ

CN Carbamimidothioic acid, [[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 58911-61-8P 69434-94-2P 69434-95-3P  
69435-23-0P 69435-24-1P 69435-25-2P  
69435-26-3P 69435-27-4P 69435-28-5P

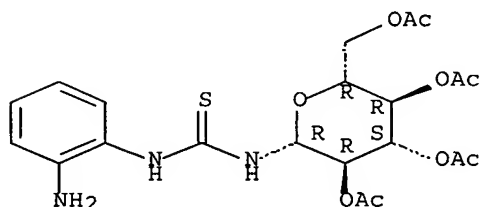
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and cyclodesulfurization of, with Me iodide)

RN 58911-61-8 HCAPLUS

CN Thiourea, N-(2-aminophenyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

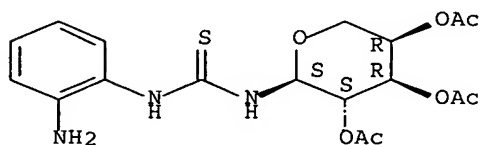
Absolute stereochemistry.



RN 69434-94-2 HCAPLUS

CN Thiourea, N-(2-aminophenyl)-N'-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



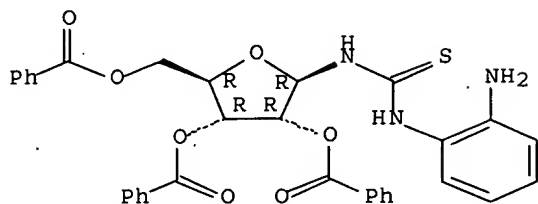
RN 69434-95-3 HCAPLUS

CN Thiourea, N-(2-aminophenyl)-N'-(2,3,5-tri-O-benzoyl- $\beta$ -D-



ribofuranosyl)-(9CI) (CA INDEX NAME)

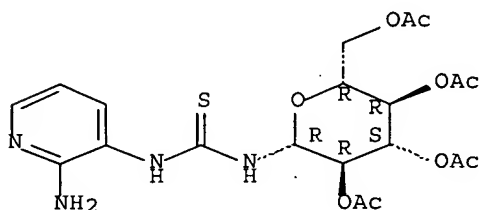
Absolute stereochemistry.



RN 69435-23-0 HCAPLUS

CN Thiourea, N-(2-amino-3-pyridinyl)-N'-(2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)-(9CI) (CA INDEX NAME)

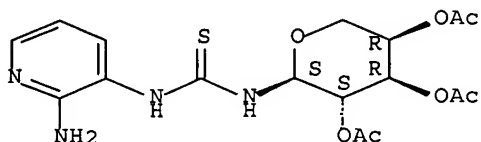
Absolute stereochemistry.



RN 69435-24-1 HCAPLUS

CN Thiourea, N-(2-amino-3-pyridinyl)-N'-(2,3,4-tri-O-acetyl-alpha-D-arabinopyranosyl)-(9CI) (CA INDEX NAME)

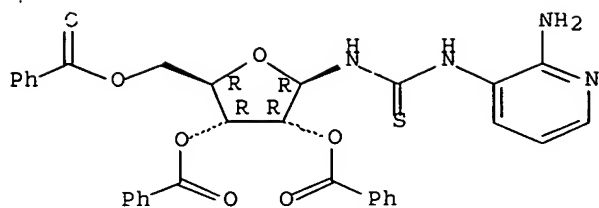
Absolute stereochemistry.



RN 69435-25-2 HCAPLUS

CN Thiourea, N-(2-amino-3-pyridinyl)-N'-(2,3,5-tri-O-benzoyl-beta-D-ribofuranosyl)-(9CI) (CA INDEX NAME)

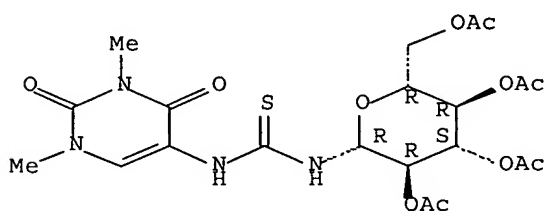
Absolute stereochemistry.



RN 69435-26-3 HCAPLUS

CN Thiourea, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-N'-(1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)- (9CI) (CA INDEX NAME)

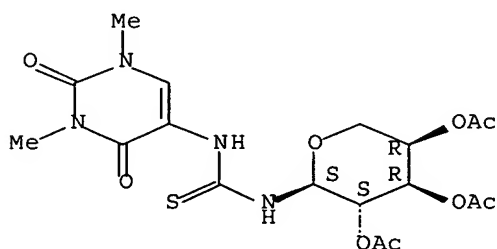
Absolute stereochemistry.



RN 69435-27-4 HCAPLUS

CN Thiourea, N-(1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

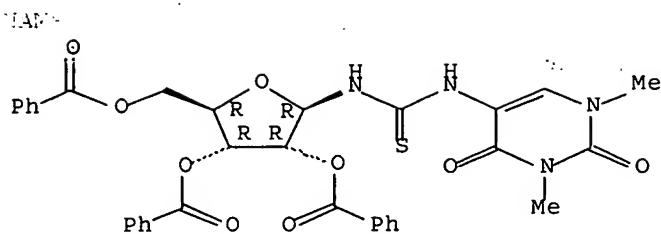
Absolute stereochemistry.



RN 69435-28-5 HCAPLUS

CN Thiourea, N-(1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-5-pyrimidinyl)-N'-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



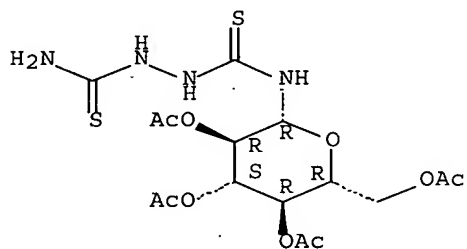
IT 18604-48-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and methylation of)

RN 18604-48-3 HCAPLUS

CN 1,2-Hydrazinededicarbothioamide, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 68977-95-7P 69018-41-3P 69018-42-4P

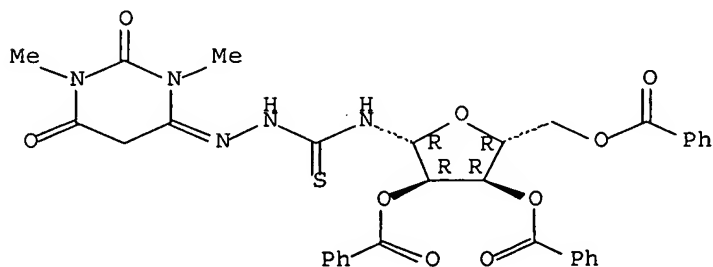
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and oxidative cyclization of)

RN 68977-95-7 HCAPLUS

CN Hydrazinecarbothioamide, 2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-N-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI)  
(CA INDEX NAME)

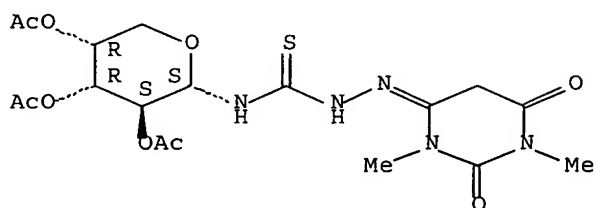
Absolute stereochemistry.

Double bond geometry unknown.



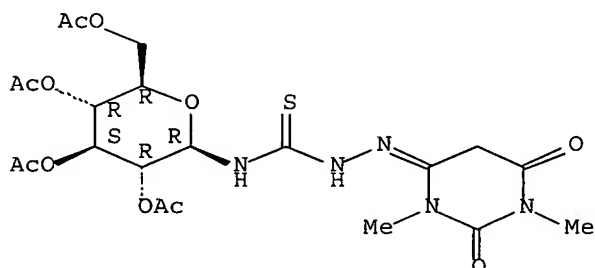
RN 69018-41-3 HCAPLUS  
 CN Hydrazinecarbothioamide, 2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



RN 69018-42-4 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-2-(tetrahydro-1,3-dimethyl-2,6-dioxo-4(1H)-pyrimidinylidene)- (9CI) (CA INDEX NAME)

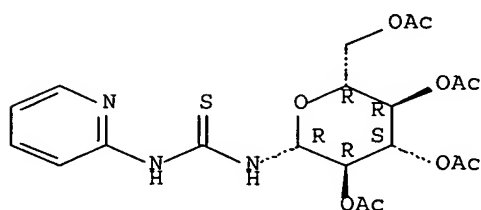
Absolute stereochemistry.  
 Double bond geometry unknown.



IT 18690-18-1P 68977-93-5P 68977-94-6P  
69018-43-5P 69435-14-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 18690-18-1 HCAPLUS  
 CN Thiourea, N-2-pyridinyl-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

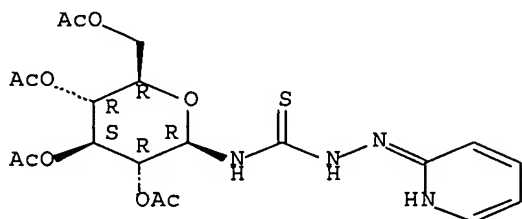


RN 68977-93-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

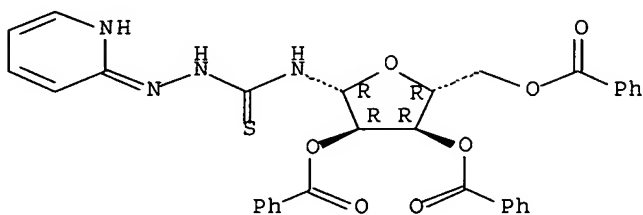


RN 68977-94-6 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

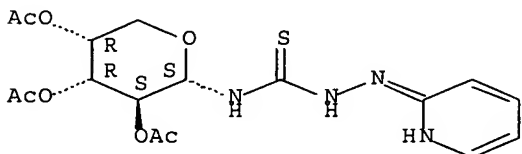


RN 69018-43-5 HCAPLUS

CN Hydrazinecarbothioamide, 2-(2-pyridinyl)-N-(2,3,4-tri-O-acetyl- $\alpha$ -D-arabinopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

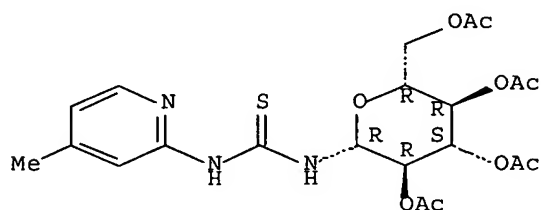
Double bond geometry unknown.



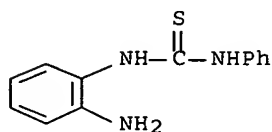
RN 69435-14-9 HCAPLUS

CN Thiourea, N-(4-methyl-2-pyridinyl)-N'-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- (9CI) (CA INDEX NAME)

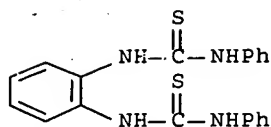
Absolute stereochemistry.



L49 ANSWER 279 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:509232 HCAPLUS Full-text  
 DOCUMENT NUMBER: 89:109232  
 TITLE: A reinvestigation of reported benzotriazepine syntheses  
 AUTHOR(S): Peet, Norton P.; Sunder, Shyam  
 CORPORATE SOURCE: Dow Chem. Co., Midland, MI, USA  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1978), 16B(3), 207-9  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 89:109232  
 ED Entered STN: 12 May 1984  
 AB The compds. incorrectly reported as benzotriazepines and other seven-membered ring systems by P. C. Guha et. al 1929 were imidazole derivs. Thus, cyclization of o-(H<sub>2</sub>NCONH)2C<sub>6</sub>H<sub>4</sub> with HCl gave the hydroxybenzimidazole I and not the benzotriazepinedione.  
 IT 21578-46-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 21578-46-1 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-phenyl- (9CI) (CA INDEX NAME)

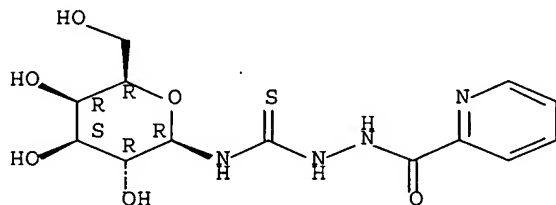


IT 50521-79-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and thermolysis of)  
 RN 50521-79-4 HCAPLUS  
 CN Thiourea, N,N''-1,2-phenylenebis[N'-phenyl- (9CI) (CA INDEX NAME)



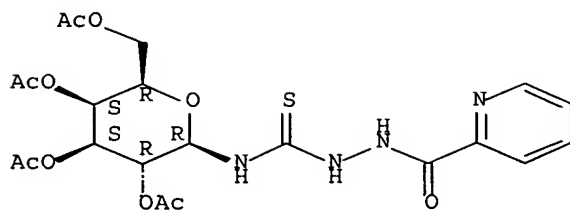
L49 ANSWER 280 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1979:152534 HCAPLUS Full-text  
 DOCUMENT NUMBER: 90:152534  
 TITLE: N-Glycosides of nitrogen heterocycles. VIII.  
 Synthesis of N-D-galactopyranoside of  
 2-amino-5-(2-pyridyl)-1,3,4-oxadiazole  
 AUTHOR(S): Wojtowicz, Mscislaw; Wieniawski, Witold  
 CORPORATE SOURCE: Dep. New Drugs, Inst. Drug Res. Control, Warsaw, Pol.  
 SOURCE: Acta Poloniae Pharmaceutica (1978), 35(1),  
 37-40  
 CODEN: APPHAX; ISSN: 0001-6837  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Polish  
 ED Entered STN: 12 May 1984  
 AB 1-Isothiocyano-1-deoxy-2,3,4,6-tetra-O-acetyl-D-galactopyranose refluxed with  
 picolinic acid hydrazide in C<sub>6</sub>H<sub>6</sub> gave 82% I, which was deacetylated to II (69%  
 yield), by 10% NaOH. I, heated in EtOH with yellow HgO, yielded 78% III; an  
 analogous reaction with II gave 38% IV, which with Ac<sub>2</sub>O in pyridine yielded  
 67% III. I showed moderate in vitro antitubercular activity.  
 IT 69010-13-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 69010-13-5 HCAPLUS  
 CN 2-Pyridinecarboxylic acid, 2-[(β-D-galactopyranosylamino)thioxomethyl  
 ]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

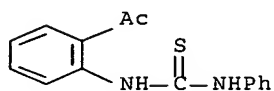


IT 68977-73-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation, deacetylation, and cyclization of)  
 RN 68977-73-1 HCAPLUS  
 CN 2-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-  
 galactopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

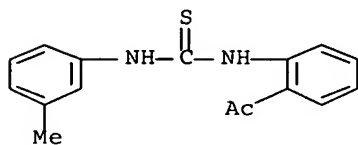
Absolute stereochemistry.



L49 ANSWER 281 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:22817 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:22817  
 TITLE: Synthesis of 3-N-oxides of 2-amino derivatives of  
 4-methylquinazoline  
 AUTHOR(S): Sykulski, Jerzy; Czyzewska, Joanna  
 CORPORATE SOURCE: Fac. Pharm., Sch. Med., Lodz, Pol.  
 SOURCE: Roczniki Chemii (1977), 51(6), 1215-20  
 CODEN: ROCHAC; ISSN: 0035-7677  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Reaction of o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>C(:NOH)Me with PhNCS gave I (R = H). Similarly I (R = 3-Me, 4-Me, 4-Cl, 4-Br) were obtained in 30-45% yields. I were also obtained in the reaction of o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>COMe with RC<sub>6</sub>H<sub>4</sub>NCS; the intermediate o-MeCOC<sub>6</sub>H<sub>4</sub>NHCSNHC<sub>6</sub>H<sub>4</sub>R were cyclized with NH<sub>2</sub>OH.HCl.  
 IT 64994-30-5P 64994-31-6P 64994-32-7P  
64994-33-8P 64994-34-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 64994-30-5 HCAPLUS  
 CN Thiourea, N-(2-acetylphenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



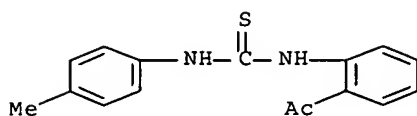
RN 64994-31-6 HCAPLUS  
 CN Thiourea, N-(2-acetylphenyl)-N'-(3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 64994-32-7 HCAPLUS

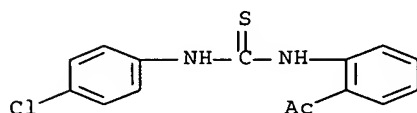


CN Thiourea, N-(2-acetylphenyl)-N'-(4-methylphenyl)- (9CI) (CA INDEX NAME)



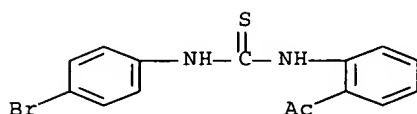
RN 64994-33-8 HCAPLUS

CN Thiourea, N-(2-acetylphenyl)-N'-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 64994-34-9 HCAPLUS

CN Thiourea, N-(2-acetylphenyl)-N'-(4-bromophenyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 282 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:90023 HCAPLUS Full-text

DOCUMENT NUMBER: 88:90023

TITLE: Cleavage of peptide bonds formed by diaminopropionic and N- $\beta$ -methyldiaminopropionic acid residues

AUTHOR(S): Avaeva, S. M.; Baratova, L. A.; Belyanova, L. P.; Kurilova, S. A.; Lebedeva, Z. I.; Nazarova, T. I.

CORPORATE SOURCE: A. N. Belozerskii Lab. Mol. Biol. Bioorg. Chem., Moscow, USSR

SOURCE: Bioorganicheskaya Khimiya (1977), 3(9), 1198-1204

CODEN: BIKHD7; ISSN: 0132-3423

DOCUMENT TYPE: Journal

LANGUAGE: Russian

ED Entered STN: 12 May 1984

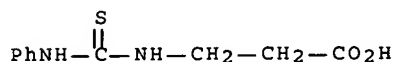
AB Under Edman degradation conditions, PhNCS reacted with the  $\beta$ -amino groups of the title diaminopropionate derivs. to give phenylthiocarbamoyl derivs. which cyclize to pyrimidinone derivs. The kinetics of cyclization showed that 6-membered rings cyclize faster than 5-membered rings and N-methylation increases the cyclization rate. This method was used to cleave peptide bonds in viomycin, glutathione, and inorg. pyrophosphatase after their modification with MeNH<sub>2</sub>.

IT 5540-73-8 65428-88-8 65428-89-9

RL: PEP (Physical, engineering or chemical process); PRP (Properties);  
RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
(cyclization of, kinetics of)

RN 5540-73-8 HCAPLUS

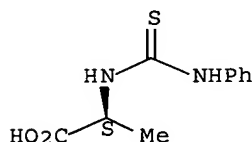
CN  $\beta$ -Alanine, N-[(phenylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



RN 65428-88-8 HCAPLUS

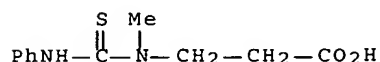
CN L-Alanine, N-[(phenylamino)thioxomethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 65428-89-9 HCAPLUS

CN  $\beta$ -Alanine, N-methyl-N-[(phenylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 283 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:89559 HCAPLUS Full-text

DOCUMENT NUMBER: 88:89559

TITLE: The cyclodesulfurization of thio compounds; XVI.  
Dicyclohexylcarbodiimide as an efficient  
cyclodesulfurizing agent in the synthesis of

heterocyclic compounds from various thio compounds

AUTHOR(S): Omar, A Mohsen M. E.; Habib, N. S.; Aboulwafa, Omaima M.

CORPORATE SOURCE: Fac. Pharm., Univ. Alexandria, Alexandria, Egypt

SOURCE: Synthesis (1977), (12), 864-5  
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

LANGUAGE: English

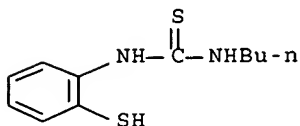
ED Entered STN: 12 May 1984

AB Treatment of o-RNHCSNHC6H4ZH (R = Ph, o-tolyl, benzyl, Bu; Z = NH, O, S) with  
1.5 mol of dicyclohexylcarbodiimide in boiling C6H6 gave 41-78% I, which were  
also prepared by refluxing equivalent amts. of o-H2NC6H4ZH and RNCS.

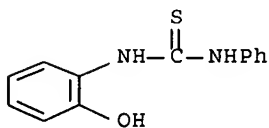
IT 65655-76-7

RL: RCT (Reactant); RACT (Reactant or reagent)

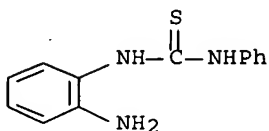
Reaction (cyclodesulfurization of, benzothiazole from)  
RN 65655-76-7 HCAPLUS  
CN Thiourea, N-butyl-N'-(2-mercaptophenyl)- (9CI) (CA INDEX NAME)



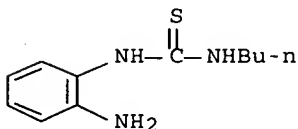
IT 17073-34-6 21578-46-1 22019-45-0  
50596-93-5 50717-64-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclodesulfurization of, with dicyclohexylcarbodiimide)  
RN 17073-34-6 HCAPLUS  
CN Thiourea, N-(2-hydroxyphenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



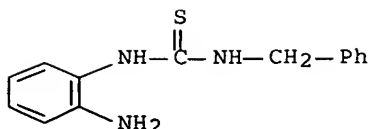
RN 21578-46-1 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



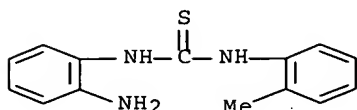
RN 22019-45-0 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-butyl- (9CI) (CA INDEX NAME)



RN 50596-93-5 HCAPLUS  
CN Thiourea, N-(2-aminophenyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

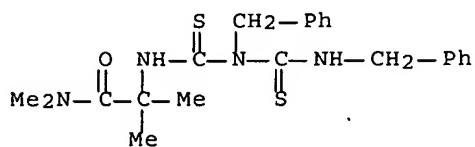


RN 50717-64-1 HCAPLUS  
 CN Thiourea, N-(2-aminophenyl)-N'-(2-methylphenyl)- (9CI) (CA INDEX NAME)



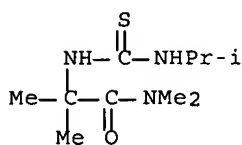
L49 ANSWER 284 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1977:423222 HCAPLUS Full-text  
 DOCUMENT NUMBER: 87:23222  
 TITLE: Cycloaddition reactions of heterocumulenes, IX. 1:1-, 2:1-, and 3:1-Adducts from the reaction of isothiocyanates with 3-dimethylamino-2,2-dimethyl-2H-azirine  
 AUTHOR(S): Schaumann, Ernst; Kausch, Erwin; Walter, Wolfgang  
 CORPORATE SOURCE: Inst. Org. Chem. Biochem., Univ. Hamburg, Hamburg, Fed. Rep. Ger.  
 SOURCE: Chemische Berichte (1977), 110(3), 820-32  
 CODEN: CHBEAM; ISSN: 0009-2940  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 87:23222  
 ED Entered STN: 12 May 1984  
 AB Treating the azirine I with activated isothiocyanates RNCS (R = tosyl, Bz) gave, via 1,3-cleavage of the ring, dipoles II (R the same) which were characterized by hydrolysis, protonation, and methylation to give III (X does not apply, Z = O; X = ClO<sub>4</sub>, Z = N+Me<sub>2</sub>) and IV (all R the same, R<sub>1</sub> = Me). When I reacted with sterically hindered RNCS (R = CHMe<sub>2</sub>, CHMePh, CMe<sub>3</sub>, 1-adamantyl), ring-cleavage of II occurred to form RN:C:NCMe<sub>2</sub>CSNMe<sub>2</sub> (V, R the same), which hydrolyzed via II to give RNHCSNHCMCMe<sub>2</sub>CONMe<sub>2</sub> (VI, R the same). VI (R = CHMe<sub>2</sub>, CHMePh) easily cyclized to give hydantoins VII (R the same). Cycloaddn. reactions of V (R = CHMe<sub>2</sub>) with R<sub>1</sub>NCS (R<sub>1</sub> = Me, PhCH<sub>2</sub>), 4-MeC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NCS, or R<sub>1</sub>NCO (R<sub>1</sub> = Me, Ph) gave triazines VIII (R<sub>1</sub> = Me, CH<sub>2</sub>Ph; Z = S), thiazetidine IX, or triazinones VIII (R<sub>1</sub> = Me, Ph; X = O), resp. R<sub>1</sub>NCS (R<sub>1</sub> = Me, Et, CH<sub>2</sub>Ph) reacted with I, depending on reaction conditions, to give 3:1 adducts X (R<sub>1</sub> the same, R<sub>2</sub> = R<sub>1</sub>) or dipolar 2:1 adducts XI (R<sub>1</sub> the same). Hydrolysis of XI (R<sub>1</sub> = CH<sub>2</sub>Ph) gave thiazolinone IV (R = CSNHCH<sub>2</sub>Ph, R<sub>1</sub> = CH<sub>2</sub>Ph) via an acyclic intermediate.  
 IT 61985-04-4P 62983-08-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 61985-04-4 HCAPLUS  
 CN Propanamide, N,N,2-trimethyl-2-[[[(phenylmethyl)[[(phenylmethyl)amino]thio

xomethyl]amino]thioxomethyl]amino] - (9CI) (CA INDEX NAME)



RN 62983-08-8 HCAPLUS

CN Propanamide, N,N,2-trimethyl-2-[[[(1-methylethyl)amino]thioxomethyl]amino] - (9CI) (CA INDEX NAME)

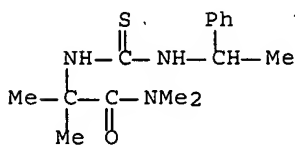


IT 62983-09-9P 62983-10-2P 62983-11-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

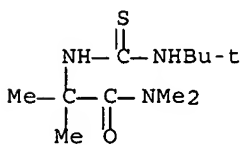
RN 62983-09-9 HCAPLUS

CN Propanamide, N,N,2-trimethyl-2-[[[(1-phenylethyl)amino]thioxomethyl]amino] - (9CI) (CA INDEX NAME)



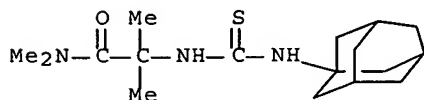
RN 62983-10-2 HCAPLUS

CN Propanamide, 2-[[[(1,1-dimethylethyl)amino]thioxomethyl]amino]-N,N,2-trimethyl- (9CI) (CA INDEX NAME)



RN 62983-11-3 HCAPLUS

CN Propanamide, N,N,2-trimethyl-2-[[thioxo(tricyclo[3.3.1.1.3,7]dec-1-ylamino)methyl]amino]- (9CI) (CA INDEX NAME)



L49 ANSWER 285 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:510253 HCAPLUS Full-text

DOCUMENT NUMBER: 89:110253

TITLE: N-glycosides of nitrogen heterocycles. VI. Synthesis of N-D-glucopyranosides of 2-amino-5-(2-pyridyl)-1,3,4-oxadiazole

AUTHOR(S): Wojtowicz, Mscislaw; Wieniawski, Witold

CORPORATE SOURCE: Inst. Drug Res. Control, Warsaw, Pol.

SOURCE: Acta Poloniae Pharmaceutica (1977), 34(6), 575-80

CODEN: APPHAX; ISSN: 0001-6837

DOCUMENT TYPE: Journal

LANGUAGE: Polish

ED Entered STN: 12 May 1984

AB Isothiocyanotetraacetyl-D-glucose refluxed in dioxane with picolinic acid hydrazide yielded 83% I (R = Ac), which with 10% NaOH gave I (R = H). I (R = H) refluxed with a suspension of yellow HgO in H2O gave 55% II, which was tetraacetylated with Ac2O. A similar reaction of I (R = Ac) yielded a mixture of tri- and tetraacetyl derivs. of II. I (R = H) has a weak tuberculostatic activity.

IT 67528-76-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

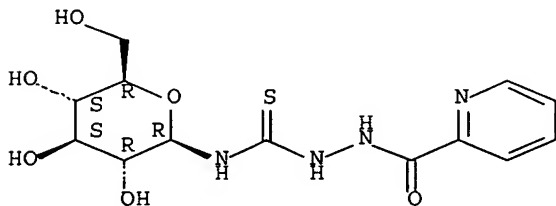
(Preparation); RACT (Reactant or reagent)

(preparation, cyclization, and tuberculostatic activity of)

RN 67528-76-1 HCAPLUS

CN 2-Pyridinecarboxylic acid, 2-[(β-D-glucopyranosylamino)thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 67492-46-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

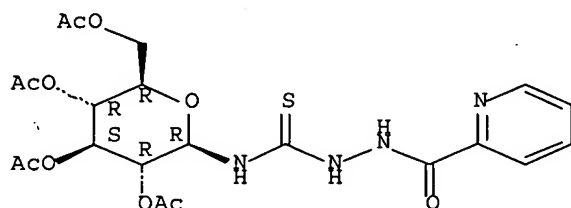
(Preparation); RACT (Reactant or reagent)

(preparation, hydrolysis, and cyclization of)

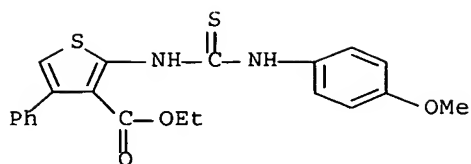
RN 67492-46-0 HCAPLUS

CN 2-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

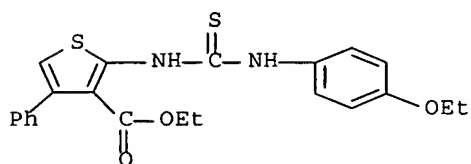


L49 ANSWER 286 OF 320 HCAPLUS .COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:74367 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:74367  
 TITLE: Synthesis of 2-mercaptothieno[2,3-d]pyrimidin-4(3H)-ones  
 AUTHOR(S): Devani, M. B.; Shishoo, C. J.; Pathak, U. S.; Sharma, B. G.; Gokhale, S. V.; Padhya, A. C.  
 CORPORATE SOURCE: Dep. Pharm. Chem., Lallubhai Motilal Coll. Pharm., Ahmedabad, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1977), 15B(6), 575-7  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 88:74367  
 ED Entered STN: 12 May 1984  
 AB 2-Mercaptothieno[2,3-d]pyrimidine-4(3H)-ones (I) (R = Ph, 4-ClC<sub>6</sub>H<sub>4</sub>, 4-MeC<sub>6</sub>H<sub>4</sub>; R<sub>1</sub> = H, Me, RR<sub>1</sub> = (CH<sub>2</sub>)<sub>2</sub>; R<sub>2</sub> = alkyl) have been synthesized by cyclizing the corresponding thioureas II in acidic medium. The thioureas prepared are thiophene isosteres of known antitubercular drugs. All the compds. synthesized have been screened for antimicrobial activity.  
 IT 65233-80-9P 65233-81-0P 65233-82-1P  
65233-83-2P 65233-84-3P 65233-85-4P  
65233-86-5P 65233-87-6P 65233-88-7P  
65233-89-8P 65233-90-1P 65233-91-2P  
65233-92-3P 65233-93-4P 65233-94-5P  
65233-95-6P 65233-96-7P 65233-97-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 65233-80-9 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



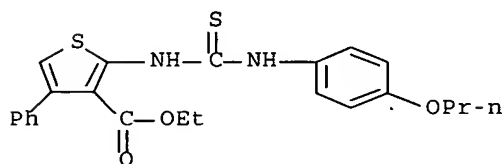
RN 65233-81-0 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-ethoxyphenyl)amino]thioxomethyl]amino]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



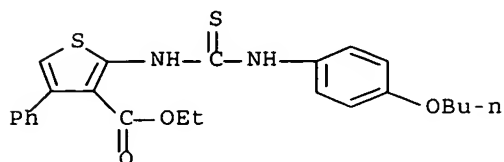
RN 65233-82-1 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-phenyl-2-[[[(4-propoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 65233-83-2 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-butoxyphenyl)amino]thioxomethyl]amino]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

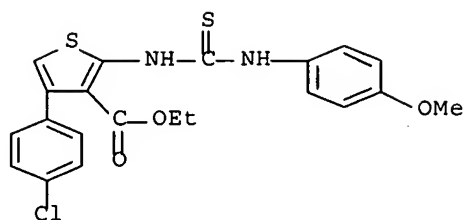


RN 65233-84-3 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-(4-chlorophenyl)-2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

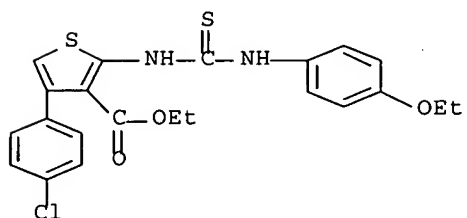


NAME)



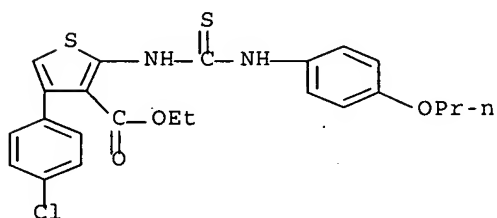
RN 65233-85-4 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-(4-chlorophenyl)-2-[[[(4-ethoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



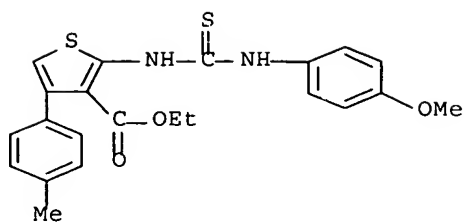
RN 65233-86-5 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-(4-chlorophenyl)-2-[[[(4-propoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



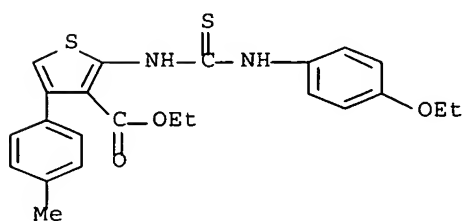
RN 65233-87-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-4-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



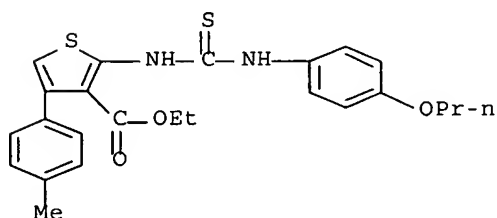
RN 65233-88-7 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-ethoxyphenyl)amino]thioxomethyl]amino]-4-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



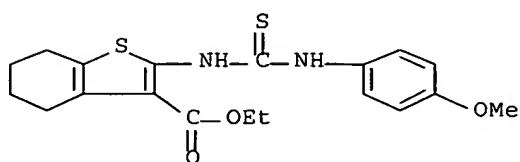
RN 65233-89-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-(4-methylphenyl)-2-[[[(4-propoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



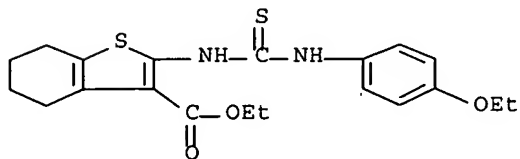
RN 65233-90-1 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



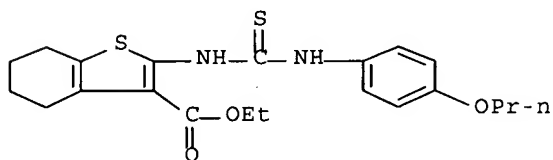
RN 65233-91-2 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(4-ethoxyphenyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



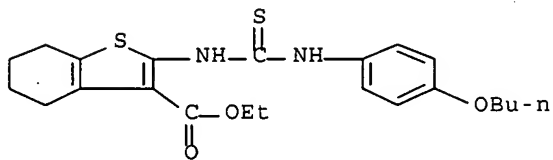
RN 65233-92-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(4-propoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



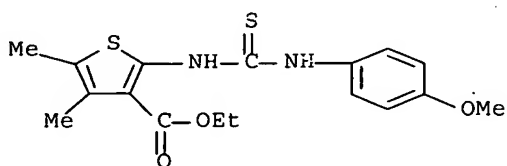
RN 65233-93-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(4-butoxyphenyl)amino]thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



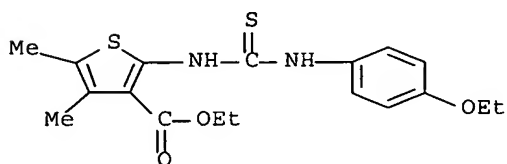
RN 65233-94-5 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-methoxyphenyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



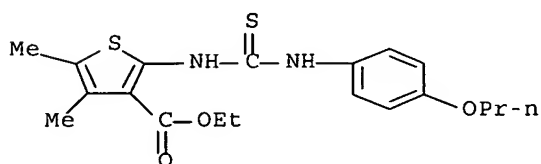
RN 65233-95-6 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-ethoxyphenyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



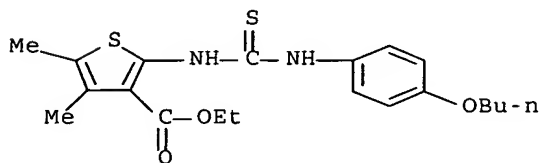
RN 65233-96-7 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(4-propoxyphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

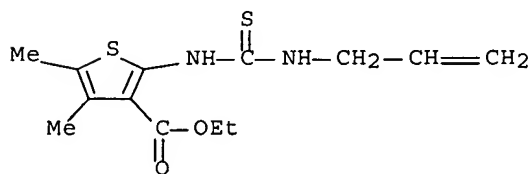


RN 65233-97-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(4-butoxyphenyl)amino]thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1978:22809 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:22809  
 TITLE: Synthesis of thiazolo[3,2-a]thieno[2,3-d]pyrimidines  
 AUTHOR(S): Gakhar, H. K.; Bhardwaj, Sujata; Baveja, P.  
 CORPORATE SOURCE: Dep. Chem., Panjab Univ., Chandigarh, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1977), 15B(4), 347-8  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 88:22809  
 ED Entered STN: 12 May 1984  
 AB 2-Amino-3-carbethoxy-4,5-dimethylthiophene was condensed with allyl isothiocyanate to give N-allyl-N'-(3-carbethoxy-4,5-dimethylthieno)thiourea (I) which was cyclized to 2,6,7-trimethyl-2,3-dihydro-5H-thiazolo[3,2-a]thieno[2,3-d]pyrimidin-5-one (II) by passing dry HCl through its boiling ethanolic solution. Bromination of I gave 2-bromomethyl-6,7-dimethyl-2,3-dihydro-5H-thiazolo[3,2-a]thieno[2,3-d]pyrimidin-5-one which on dehydrohalogenation and subsequent bromination gave 2-bromo-2-bromomethyl-6,7-dimethyl-2,3-dihydro-5H-thiazolo[3,2-a]thieno[2,3-d]pyrimidin-5-one.  
 IT 50629-08-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, thiazolothienopyrimidinone derivs. from)  
 RN 50629-08-8 HCAPLUS  
 CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 288 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:121037 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:121037  
 TITLE: Synthesis and pharmacological study of new compounds of benzothiazole  
 AUTHOR(S): Foscolos, G.; Tsatsas, G.; Champagnac, A.; Pommier, M.  
 CORPORATE SOURCE: Lab. Pharm. Chem., Univ. Athens, Athens, Greece  
 SOURCE: Annales Pharmaceutiques Francaises (1977), 35(7-8), 295-307  
 CODEN: APFRAD; ISSN: 0003-4509  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 OTHER SOURCE(S): CASREACT 88:121037  
 ED Entered STN: 12 May 1984  
 AB Benzothiazoles I (R = OMe, Cl, Me, OEt; NR1R2 = NMe2, NEt2, piperidino, pyrrolidino, morpholino; R3 = H, OMe, Cl) were prepared by treating R1R2NCH2CH2NH2 with 4-R3C6H4CHO, reducing R1R2NCH2CH2N:CHC6H4R3-4, treating

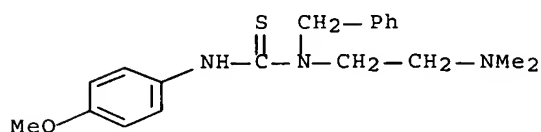
R1R2NCH2CH2NHCH2C6H4R3-4 with 4-RC6H4NCS, and cyclizing 4-RC6H4NHCSN(CH2C6H4R3-4)CH2CH2NR1R2 with Br. I had sedative, anticonvulsant, analgesic, muscle relaxant, antihistaminic, parasympatholytic, and sympatholytic activities.

IT 65875-15-2P 65875-19-6P 65875-20-9P  
65875-24-3P 65875-25-4P 65875-26-5P  
65875-27-6P 65875-32-3P 65875-33-4P  
65875-34-5P 65875-35-6P 65875-36-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

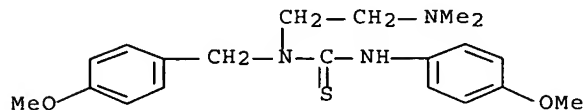
RN 65875-15-2 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methoxyphenyl)-N-(phenylmethyl)-(9CI) (CA INDEX NAME)



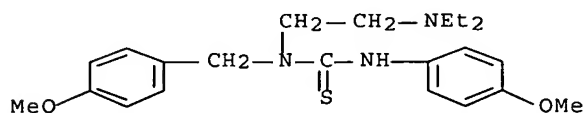
RN 65875-19-6 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methoxyphenyl)-N-[(4-methoxyphenyl)methyl]-(9CI) (CA INDEX NAME)



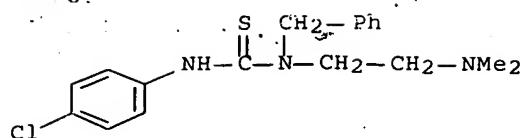
RN 65875-20-9 HCAPLUS

CN Thiourea, N-[2-(diethylamino)ethyl]-N'-(4-methoxyphenyl)-N-[(4-methoxyphenyl)methyl]-(9CI) (CA INDEX NAME)



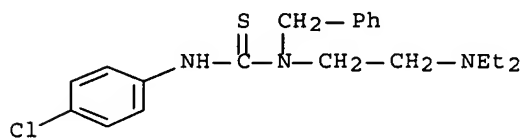
RN 65875-24-3 HCAPLUS

CN Thiourea, N'-(4-chlorophenyl)-N-[2-(dimethylamino)ethyl]-N-(phenylmethyl)-(9CI) (CA INDEX NAME)



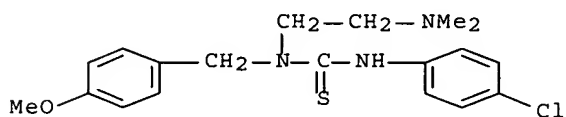
RN 65875-25-4 HCAPLUS

CN Thiourea, N'-(4-chlorophenyl)-N-[2-(diethylamino)ethyl]-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



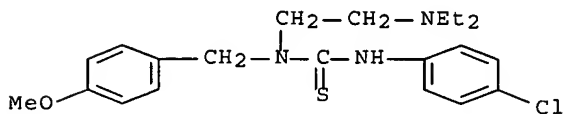
RN 65875-26-5 HCAPLUS

CN Thiourea, N'-(4-chlorophenyl)-N-[2-(dimethylamino)ethyl]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



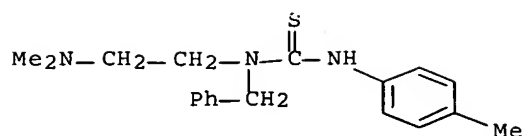
RN 65875-27-6 HCAPLUS

CN Thiourea, N-[2-(diethylamino)ethyl]-N'-(4-chlorophenyl)-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



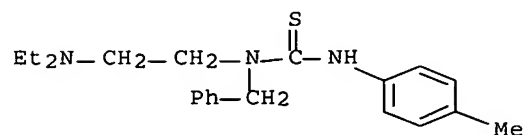
RN 65875-32-3 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methylphenyl)-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



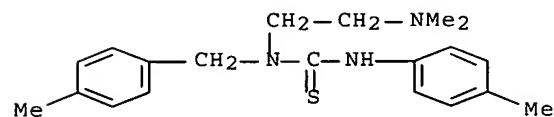
RN 65875-33-4 HCAPLUS

CN Thiourea, N-[2-(diethylamino)ethyl]-N'-(4-methylphenyl)-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



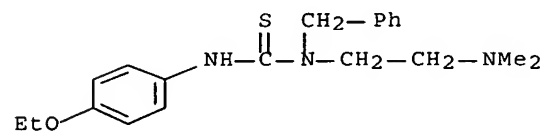
RN 65875-34-5 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methylphenyl)-N-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 65875-35-6 HCAPLUS

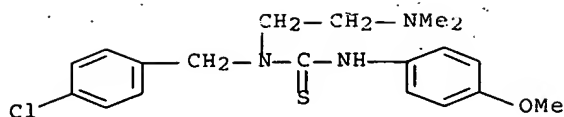
CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-ethoxyphenyl)-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



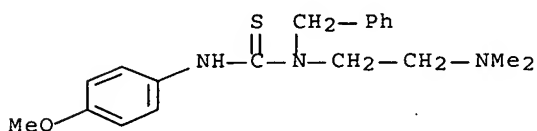
RN 65875-36-7 HCAPLUS

CN Thiourea, N-[(4-chlorophenyl)methyl]-N-[2-(dimethylamino)ethyl]-N'-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

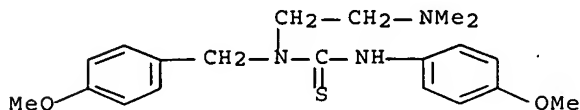




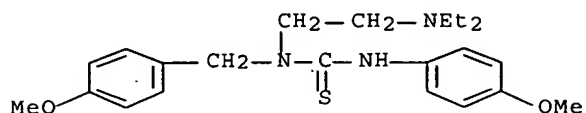
L49 ANSWER 289 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1979:103887 HCAPLUS Full-text  
 DOCUMENT NUMBER: 90:103887  
 TITLE: Synthesis and pharmacodynamic study of new  
 benzothiazole derivatives  
 AUTHOR(S): Foscolos, G.; Tsatsas, G.  
 CORPORATE SOURCE: Greece  
 SOURCE: Praktika tes Akademias Athenon (1977),  
 Volume Date 1976, 51(A), 274-91  
 CODEN: PAATAK; ISSN: 0369-8106  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 ED Entered STN: 12 May 1984  
 AB Benzothiazoles I (R = H, OMe, Me, Cl; NR1R2 = NMe2, NEt2, piperidino,  
 morpholino; R3 = OMe, Cl, Me, OEt) (21 compds.) were prepared by treating 4-  
 RC6H4CHO with R1R2NCH2CH2NH2, hydrogenating the resulting Schiff bases,  
 treating R1R2NCH2CH2NHCH2C6H4R-4 with 4-R3C6H4NCS, and cyclizing 4-  
 R3C6H4NHCSN(CH2C6H4R-4)CH2CH2NR1R2 with Br. Various I have sympatholytic,  
 muscle relaxant, analgesic, neuroleptic, sedative, and cerebral vasodilating  
 activity.  
 IT 65875-15-2 65875-19-6 65875-20-9  
65875-24-3 65875-25-4 65875-26-5  
65875-27-6 65875-32-3 65875-33-4  
65875-34-5 65875-35-6 65875-36-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation cyclization of)  
 RN 65875-15-2 HCAPLUS  
 CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methoxyphenyl)-N-(phenylmethyl)-  
 (9CI) (CA INDEX NAME)



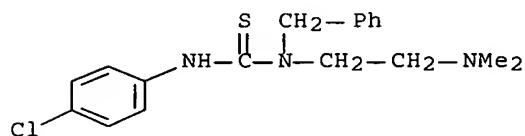
RN 65875-19-6 HCAPLUS  
 CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methoxyphenyl)-N-[(4-  
 methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



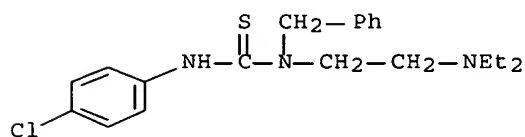
RN 65875-20-9 HCAPLUS  
 CN Thiourea, N-[2-(diethylamino)ethyl]-N'-(4-methoxyphenyl)-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



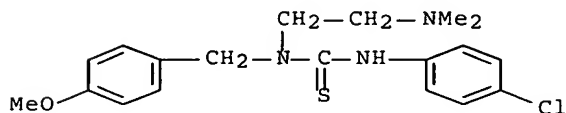
RN 65875-24-3 HCAPLUS  
 CN Thiourea, N'-(4-chlorophenyl)-N-[2-(dimethylamino)ethyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



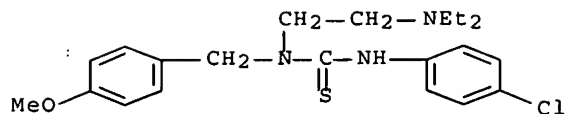
RN 65875-25-4 HCAPLUS  
 CN Thiourea, N'-(4-chlorophenyl)-N-[2-(diethylamino)ethyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 65875-26-5 HCAPLUS  
 CN Thiourea, N'-(4-chlorophenyl)-N-[2-(dimethylamino)ethyl]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

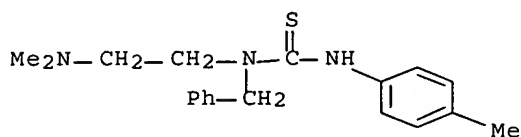


RN 65875-27-6 HCAPLUS  
 CN Thiourea, N'-(4-chlorophenyl)-N-[2-(diethylamino)ethyl]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



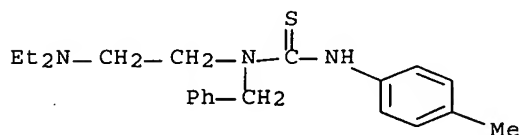
RN 65875-32-3 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methylphenyl)-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



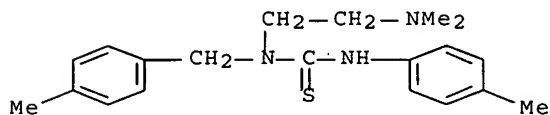
RN 65875-33-4 HCAPLUS

CN Thiourea, N-[2-(diethylamino)ethyl]-N'-(4-methylphenyl)-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



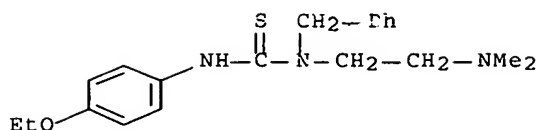
RN 65875-34-5 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-methylphenyl)-N-[(4-methylphenyl)methyl]-  
(9CI) (CA INDEX NAME)



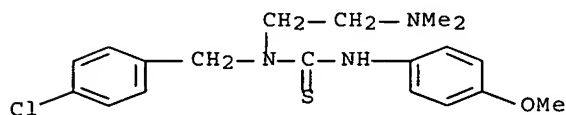
RN 65875-35-6 HCAPLUS

CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(4-ethoxyphenyl)-N-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



RN 65875-36-7 HCAPLUS

CN Thiourea, N-[(4-chlorophenyl)methyl]-N'-[2-(dimethylamino)ethyl]-N''-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 290 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:584432 HCAPLUS Full-text

DOCUMENT NUMBER: 87:184432

TITLE: Bis-heterocycles. Part III. Synthesis of tetramethylene-3,3'-di-1,2,4-triazoles and tetramethylene-2,2'-di-1,3,4-thiadiazoles

AUTHOR(S): Ram, Vishnu Ji; Pandey, H. N.

CORPORATE SOURCE: Dep. Chem., S. C. Coll., Ballia, India

SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1977), 96(7-8), 181-2

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 87:184432

ED Entered STN: 12 May 1984

AB RNHC(S)NHNHCO(CH<sub>2</sub>)<sub>4</sub>CONHNHC(S)NHR (I) (R = Ph, tolyl, halophenyl, anisyl, phenethyl), prepared from H<sub>2</sub>NNHCO(CH<sub>2</sub>)<sub>4</sub>CONHNH<sub>2</sub> and RNCS, were cyclized by refluxing in aqueous 5N NaOH 3 h to give the resp. II (R<sub>1</sub> = SH, X = NR) (III). Cyclization of I by concentrated H<sub>2</sub>SO<sub>4</sub> or H<sub>3</sub>PO<sub>4</sub> gave II (R<sub>1</sub> = NHR, X = S) (IV). Alkylation of III by R<sub>2</sub>Br (R<sub>2</sub> = Et, Pr) gave II (R<sub>1</sub> = SR<sub>2</sub>, X = NR). IV (R = Ph, p-BrC<sub>6</sub>H<sub>4</sub>) are virucides against corn virus and bean virus.

IT 33327-25-2P 64546-13-0P

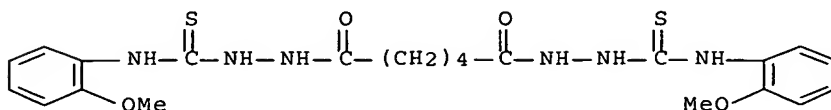
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

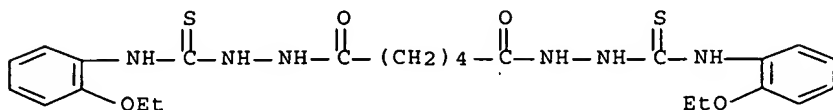
(preparation and cyclization of, triazole and thiadiazole derivs. from)

RN 33327-25-2 HCAPLUS

CN Hexanedioic acid, bis[2-[[2-(methoxyphenyl)amino]thioxomethyl]hydrazide] (9CI) (CA INDEX NAME)

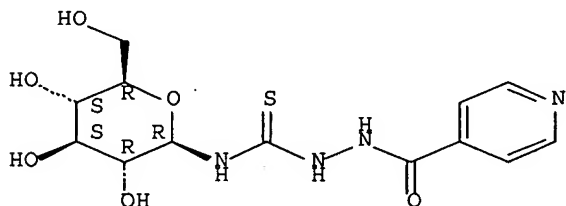


RN 64546-13-0 HCAPLUS  
 CN Hexanedioic acid, bis[2-[(2-ethoxyphenyl)amino]thioxomethyl]hydrazide]  
 (9CI) (CA INDEX NAME)



L49 ANSWER 291 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:62575 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:62575  
 TITLE: N-Glycosides of nitrogen-containing heterocyclic compounds. V. Synthesis of N-D-glucopyranosides and N-D-galactopyranosides of 2-amino-5-(4-pyridyl)-1,3,4-oxadiazole  
 AUTHOR(S): Wojtowicz, Mscislaw; Wieniawski, Witold  
 CORPORATE SOURCE: Dep. New Drugs, Inst. Drug Res. Control, Warsaw, Pol.  
 SOURCE: Acta Poloniae Pharmaceutica (1977), 34(2), 149-55  
 CODEN: APPHAX; ISSN: 0001-6837  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Polish  
 ED Entered STN: 12 May 1984  
 AB Treating isoniazid with tetra-O-acetyl-D-glucopyranosyl isothiocyanate gave thiosemicarbazide I, which was treated with yellow HgO to give a mixture of Ac derivs. of II; deacetylation gave II. II was also prepared by deacetylation of I followed by cyclization with HgO. The D-galactopyranoside analog of II was obtained similarly.  
 IT 64504-24-1P 65437-54-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 64504-24-1 HCAPLUS  
 CN 4-Pyridinecarboxylic acid, 2-[(β-D-glucopyranosylamino)thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

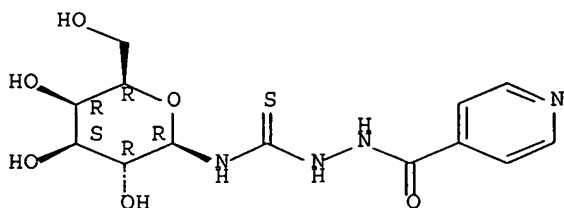
Absolute stereochemistry.



RN 65437-54-9 HCAPLUS  
 CN 4-Pyridinecarboxylic acid, 2-[(β-D-galactopyranosylamino)thioxomethyl]

]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



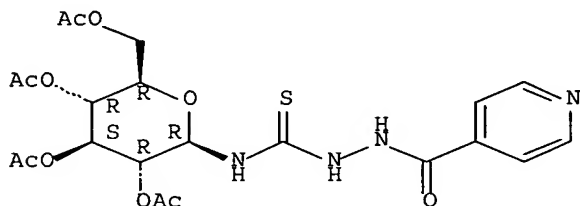
IT 64504-25-2P 65370-21-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, deacetylation and cyclization of)

RN 64504-25-2 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

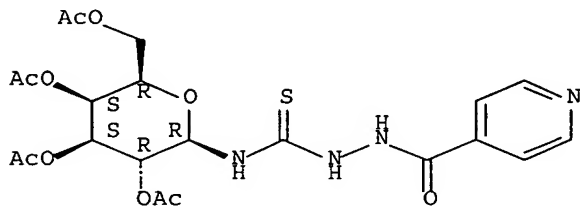
Absolute stereochemistry.



RN 65370-21-0 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-beta-D-galactopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 292 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:51124 HCAPLUS Full-text

DOCUMENT NUMBER: 88:51124

TITLE: N-Glycosides of nitrogen-containing heterocyclic compounds. III. Synthesis of 2-amino-5-(3-pyridyl)-

AUTHOR(S): 1,3,4-oxadiazole N-β-D-galactopyranoside  
Gmernicka-Haftek, Cecylia; Wieniawski, Witold  
CORPORATE SOURCE: Dep. New Drugs, Inst. Drug Res. Control, Warsaw, Pol.  
SOURCE: Acta Poloniae Pharmaceutica (1977), 34(1),  
23-7

CODEN: APPHAX; ISSN: 0001-6837

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Isothiocyantogalactopyranose I, prepared from acetobromo-D-galactose and AgNCS in 70% yield, was treated with nicotinic acid hydrazide in anhydrous C<sub>6</sub>H<sub>6</sub> to give 90% thiosemicarbazide II. Deacetylation of II with 10% NaOH (71% yield) followed by desulfurization with yellow HgO (24% yield) gave the title oxadiazole III. Treating II with HgO gave 71% tetra-O-acetate of III, which was deacetylated.

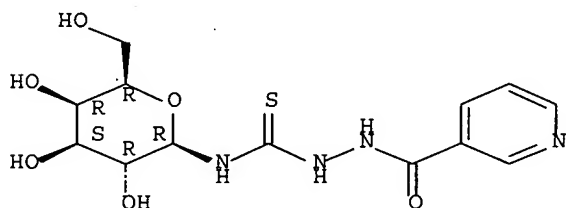
IT 65391-38-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 65391-38-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[(β-D-galactopyranosylamino)thioxomethyl]  
hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



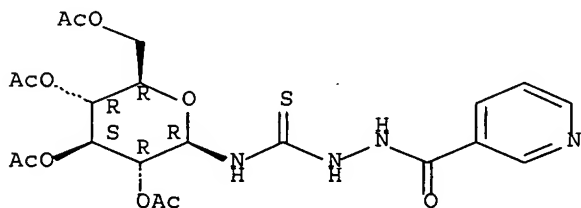
IT 51587-40-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, deacetylation and cyclization of)

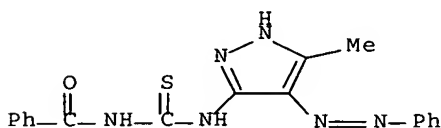
RN 51587-40-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

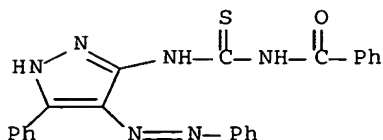
Absolute stereochemistry.



ACCESSION NUMBER: 1976:592676 HCAPLUS Full-text  
 DOCUMENT NUMBER: 85.192676  
 TITLE: Pyrimidine derivatives and related compounds. 4. A route for the synthesis of pyrazolo [3,4-e]-as-triazines, pyrazolo[3,4-d]pyrimidines, and pyrazolo[1,5-c]-as-triazines  
 AUTHOR(S): Elnagdi, Mohamed H.; El-Moghayar, Mohamed R. H.; Fleita, Daizy H.; Hafez, Ebtisam A. A.; Fahmy, Sherief M.  
 CORPORATE SOURCE: Fac. Sci., Cairo Univ., Giza, Egypt  
 SOURCE: Journal of Organic Chemistry (1976), 41(24), 3781-4  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Pyrazole I (R = H, R1 = Ph) reacts with BzNCS to yield 4-benzoylthiocarbamoyl-I (R = PhCONHCS, R1 = Ph). 5-Amino-4- (arylaazo)pyrazoles I (R = PhN:N, 4-MeC6H4N:N, R1 = Ph; R = PhN:N, R1 = Me) reacted with BzNCS to yield thiourea derivs. II (R = PhN:N, 4-MeC6H4N:N, R1 = Ph; R = PhN:N, R1 = Me) which could be cyclized into the pyrazolo [3,4-e]-as-triazine derivs. III (R = Ph, 4-MeC6H4, R1 = Ph; R = Ph, R1 = Me). Cyanomethylpyrazole I (R = cyano, R1 = CH2CH) reacted with BzNCS to yield pyrazolo[3,4-d]pyrimidine IV. I (R = H, R1 = Ph) was diazotized and the resulting diazonium salt was coupled with a variety of active methylene  $\beta$ -functional compds. to afford pyrazolo[1,5-c]-as-triazines V (R3 = NH2, OH, Me, R4 = cyano). The intermediate coupling products could be isolated in some cases. The behavior of V toward NH2OH, NaOEt-EtOH, and AcOH-HCl was reported.  
 IT 59119-57-2P 60269-77-4P 60269-78-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 59119-57-2 HCAPLUS  
 CN Benzamide, N-[[[5-methyl-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]-(9CI) (CA INDEX NAME)



RN 60269-77-4 HCAPLUS  
 CN Benzamide, N-[[[5-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]amino]thioxomethyl]-(9CI) (CA INDEX NAME)

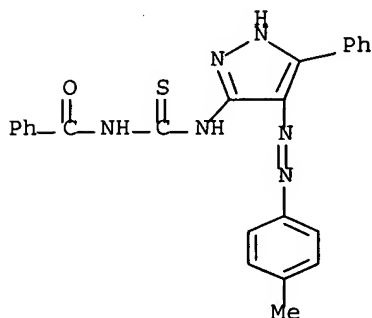




RN 60269-78-5 HCAPLUS

PM 60-78-5

CN Benzamide, N-[[[4-[(4-methylphenyl)azo]-5-phenyl-1H-pyrazol-3-yl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

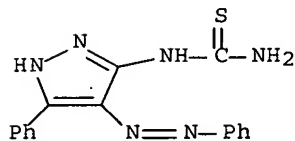


IT 60269-79-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 60269-79-6 HCAPLUS

CN Thiourea, [5-phenyl-4-(phenylazo)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



L49 ANSWER 294 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:106532 HCAPLUS Full-text

DOCUMENT NUMBER: 86:106532

TITLE: Addition reactions of 3-dimethylamino-2,2-dimethyl-2H-azirine with isothiocyanates

AUTHOR(S): Schmid, Ursula; Heimgartner, Heinz; Schmid, Hans; Oberhaensli, Willi E.

CORPORATE SOURCE: Org.-Chem. Inst., Univ. Zurich, Zurich, Switz.

SOURCE: Helvetica Chimica Acta (1976), 59(8), 2768-85

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: German

ED Entered STN: 12 May 1984

AB The title addition gave the zwitterions I (R = Me, CH<sub>2</sub>Ph), which were hydrolyzed to RNHCSNRCSNHCM<sub>2</sub>CONMe<sub>2</sub>. In aqueous acid I gave II (X = O), whereas NaBH<sub>4</sub> reduction gave II (X = H, NMe<sub>2</sub>). Reaction of I with RNCS gave III (X<sub>1</sub> = NCMe<sub>2</sub>CSNMe<sub>2</sub>), which underwent hydrolysis to III (X<sub>1</sub> = S, SCOCMe<sub>2</sub>NH). Reaction of I (R = CH<sub>2</sub>Ph) with PhNCO gave IV. X-ray anal. of III (R = Me, X<sub>1</sub> = NCMe<sub>2</sub>CSNMe<sub>2</sub>) is reported.

IT 61985-04-4P

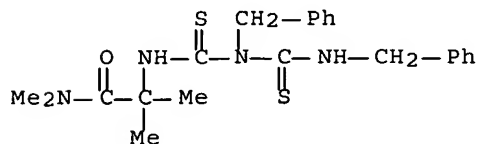
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 61985-04-4 HCAPLUS

CN Propanamide, N,N,2-trimethyl-2-[[[(phenylmethyl)[[(phenylmethyl)amino]thioxomethyl]amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



IT 61985-12-4P

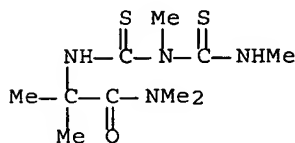
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and hydrolysis of)

RN 61985-12-4 HCAPLUS

CN Propanamide, N,N,2-trimethyl-2-[[[methyl[(methylamino)thioxomethyl]amino]thioxomethyl]amino]- (9CI) (CA INDEX NAME)



L49 ANSWER 295 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:72506 HCAPLUS Full-text

DOCUMENT NUMBER: 86:72506

TITLE:  $\alpha$ -Isothiocyanatoacrylic esters, III.  
Ring formations by addition of nucleophiles to  
 $\alpha$ -isothiocyanatoacrylic esters

AUTHOR(S): Kloft, Michael; Hoppe, Dieter

CORPORATE SOURCE: Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed.  
Rep. Ger.

SOURCE: Justus Liebigs Annalen der Chemie (1976),  
(11), 1997-2006

CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 86:72506

ED Entered STN: 12 May 1984

AB Primary alkanethiols R3SH (R3 = CH2Ph, CH2CH:CH2, CHMe2), alkanols R3OH (R3 = Me, Et), or dialkylamines R3R4NH [R3 = R4 = CH2Ph; R3R4 = (CH2)5; R3 = Me, R4 = Ph] added to the heterocumylene group of acrylates R1R2C:C(NCS)CO2Et (R1 = R2 = Ph; R1 = Et, R2 = Me; R1 = Ph, R2 = H, Me) and PhCH:C(NCS)CO2Me in the presence of base to give thiourethanes R1R2C:C(CO2Et)NHCS2R3 or R1R2C:C(CO2Et)NHC(S)OR3 or thioureas R1R2C:C(CO2Et)NHC(S)NR3R4, resp., which cyclized on heating (acid or base catalysis) across the conjugated C=C bond to give 36-87% (alkylthio)thiazolines I, 53-60% alkoxythiazolines II, or 30-78%

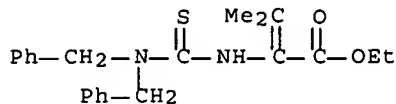
(dialkylamino)thiazolines III, resp. With primary amines R<sub>3</sub>NH<sub>2</sub>, ring closure of the nonisolable adducts R<sub>1</sub>R<sub>2</sub>C:C(CO<sub>2</sub>Et)NHCSNHR<sub>3</sub> occurred across the carbonyl group to give 75-96% thiohydantoins IV (R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>3</sub> = CH<sub>2</sub>Ph, Ph; R<sub>1</sub> = Ph, R<sub>2</sub> = H, R<sub>3</sub> = CMe<sub>3</sub>, R<sub>2</sub> = Me, R<sub>3</sub> = CH<sub>2</sub>CH:CH<sub>2</sub>, R<sub>2</sub> = Ph, R<sub>3</sub> = CMe<sub>3</sub>).

IT 61632-52-8P 61632-54-0P 61632-55-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

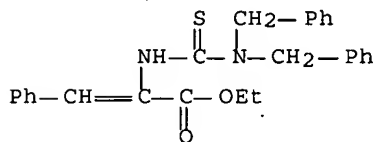
RN 61632-52-8 HCAPLUS

CN 2-Butenoic acid, 2-[[[bis(phenylmethyl)amino]thioxomethyl]amino]-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



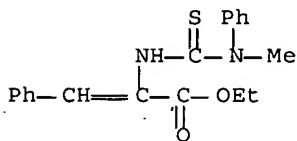
RN 61632-54-0 HCAPLUS

CN 2-Propenoic acid, 2-[[[bis(phenylmethyl)amino]thioxomethyl]amino]-3-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 61632-55-1 HCAPLUS

CN 2-Propenoic acid, 2-[[[methylphenylamino]thioxomethyl]amino]-3-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 296 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:523293 HCAPLUS Full-text

DOCUMENT NUMBER: 85:123293

TITLE: Synthesis and properties of derivatives of diaminopropionic and diaminobutyric acids

AUTHOR(S): Mirzayanova, M. N.; Medvedeva, I. V.; Fedulova, I. E.; Egorov, Ts. A.; Khorlin, A. Ya.

CORPORATE SOURCE: Inst. Bioorg. Khim. im. Shemyakina, Moscow, USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (

1976), (7), 1603-8

CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

OTHER SOURCE(S):

CASREACT 85:123293

ED Entered STN: 12 May 1984

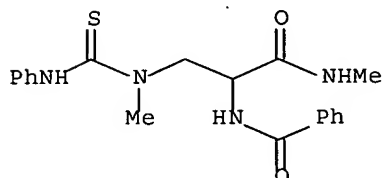
AB  $\text{RCHClCH}(\text{NH}_2 \cdot \text{HCl})\text{CO}_2\text{Me}$  ( $\text{R} = \text{H}, \text{Me}$ ) were treated with  $\text{BzCl}$  to give 80-2%  $\text{RCHClCH}(\text{NHBz})\text{CO}_2\text{Me}$ , which were aminated with 10%  $\text{MeNH}_2$  in  $\text{MeOH}$  to give  $\text{MeNHCHRCH}(\text{NHBz})\text{CONHMe}$  (I); I ( $\text{R} = \text{Me}$ ) was a mixture of DL-erythro and DL-threo isomers which were readily and reversibly interconverted in the presence of acid or base. Treating I with  $\text{PhNCS}$  and then dehydrating with  $\text{CF}_3\text{CO}_2\text{H}$  yielded hexahydropyrimidine derivative; acidic hydrolysis of the latter or of I afforded  $\text{MeNHCHRCH}(\text{NH}_2 \cdot \text{HCl})\text{CO}_2\text{H}$ .

IT 60468-74-8P 60468-76-0P 60468-78-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 60468-74-8 HCAPLUS

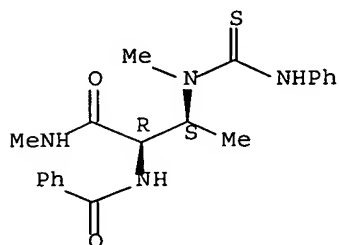
CN Benzamide, N-[2-(methylamino)-1-[[methyl[(phenylamino)thioxomethyl]amino]methyl]-2-oxoethyl]- (9CI) (CA INDEX NAME)



RN 60468-76-0 HCAPLUS

CN Benzamide, N-[1-[(methylamino)carbonyl]-2-[methyl[(phenylamino)thioxomethyl]amino]propyl]-, ( $\text{R}^*, \text{S}^*$ )- (9CI) (CA INDEX NAME)

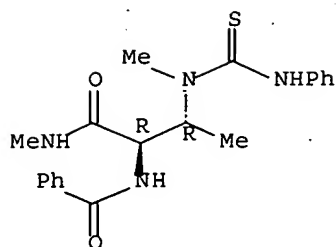
Relative stereochemistry.



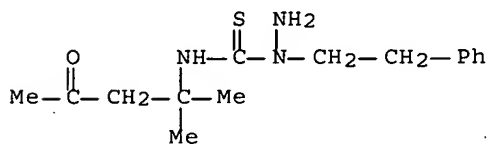
RN 60468-78-2 HCAPLUS

CN Benzamide, N-[1-[(methylamino)carbonyl]-2-[methyl[(phenylamino)thioxomethyl]amino]propyl]-, ( $\text{R}^*, \text{R}^*$ )- (9CI) (CA INDEX NAME)

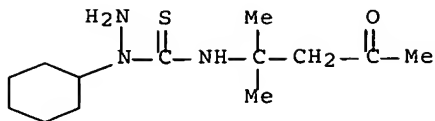
Relative stereochemistry.



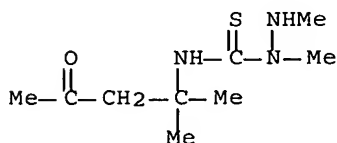
L49 ANSWER 297 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1977:72598 HCAPLUS Full-text  
 DOCUMENT NUMBER: 86:72598  
 TITLE: Syntheses of seven-membered heterocycles from substituted isothiocyanates and hydrazines  
 AUTHOR(S): Neidlein, Richard; Ober, Wolf D.  
 CORPORATE SOURCE: Pharm.-Chem. Inst., Univ. Karlsruhe, Karlsruhe, Fed. Rep. Ger.  
 SOURCE: Monatshefte fuer Chemie (1976), 107(5), 1251-8  
 CODEN: MOCMB7; ISSN: 0026-9247  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 86:72598  
 ED Entered STN: 12 May 1984  
 AB MeCOCH<sub>2</sub>CM<sub>2</sub>NCS reacts with RNHNH<sub>2</sub> (R = H, Me, Et, cyclohexyl, PhCH<sub>2</sub>CH<sub>2</sub>, HOCH<sub>2</sub>CH<sub>2</sub>) in alkaline solution to form 2-alkyl-5,6-dihydro-(2H)-1,2,4-triazepine-3(4H)-thiones I. The intermediate MeCOCH<sub>2</sub>CM<sub>2</sub>NHCSNR<sub>2</sub>NHR<sub>1</sub> (R<sub>1</sub> = H, R<sub>2</sub> = cyclohexyl, PhCH<sub>2</sub>CH<sub>2</sub>; R<sub>1</sub> = R<sub>2</sub> = Me), formed by addition of the hydrazine derivs. to the isothiocyanate group were isolated. BrCH<sub>2</sub>CO<sub>2</sub>Et alkylated I (R = H) at S and the fused ring compound II was isolated.  
 IT 61781-16-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 61781-16-6 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(1,1-dimethyl-3-oxobutyl)-1-(2-phenylethyl)-(9CI) (CA INDEX NAME)



IT 61781-15-5P 61781-17-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 61781-15-5 HCAPLUS  
 CN Hydrazinecarbothioamide, 1-cyclohexyl-N-(1,1-dimethyl-3-oxobutyl)-(9CI) (CA INDEX NAME)



RN 61781-17-7 HCAPLUS  
 CN Hydrazinecarbothioamide, N-(1,1-dimethyl-3-oxobutyl)-1,2-dimethyl- (9CI)  
 (CA INDEX NAME)

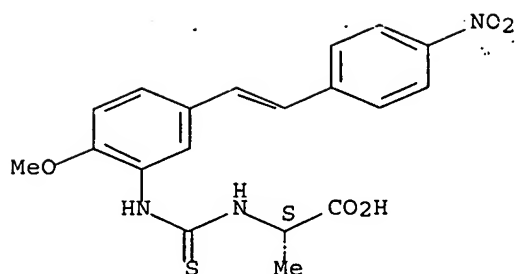


L49 ANSWER 298 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1977:43617 HCAPLUS Full-text  
 DOCUMENT NUMBER: 86:43617  
 TITLE: Synthesis of isothiocyanate and  
 2-thiohydantoin derivatives of 4-methoxy-4'-  
 nitrostilbene  
 AUTHOR(S): Kuczek, Marian; Nowak, Kornel  
 CORPORATE SOURCE: Inst. Biochem. Biophys., Sch. Med., Wroclaw, Pol.  
 SOURCE: Roczniki Chemii (1976), 50(5), 967-9  
 CODEN: ROCHAC; ISSN: 0035-7677  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Aldol condensation of 3,4-AcNH(MeO)C6H3CHO with p-O2NC6H4CH2CO2H gave 30% 3-  
 acetamido-4-methoxy-4'-nitrostilbene, which was hydrolyzed; the resultant  
 amine was treated with CSCL2 to give 3-isothiocyanato -4-methoxy-4'-  
 nitrostilbene, which on reaction with alanine followed by cyclization of the  
 product gave hydantoin I.  
 IT 61622-26-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 61622-26-2 HCAPLUS  
 CN L-Alanine, N-[[[2-methoxy-5-[2-(4-nitrophenyl)ethenyl]phenyl]amino]thioxom  
 ethyl]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI) (CA INDEX  
 NAME)

CM 1

CRN 61622-25-1  
 CMF C19 H19 N3 O5 S

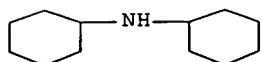
Absolute stereochemistry.  
 Double bond geometry unknown.



CM 2

CRN 101-83-7

CMF C12 H23 N

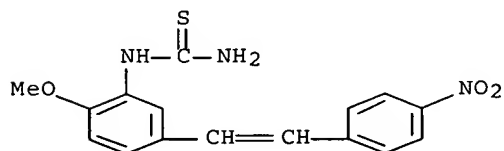


IT 61622-27-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 61622-27-3 HCAPLUS

CN Thiourea, [2-methoxy-5-[2-(4-nitrophenyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 299 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:446566 HCAPLUS Full-text

DOCUMENT NUMBER: 85:46566

TITLE: Synthesis of 3-substituted thieno[2,3-d]pyrimidin-4(3H)-one-2-mercaptoacetic acids and their ethyl esters for pharmacological screening

AUTHOR(S): Devani, M. B.; Shishoo, C. J.; Pathak, U. S.; Parikh, S. H.; Shah, G. F.; Padhya, A. C.

CORPORATE SOURCE: Dep. Pharm. Chem., L. M. Coll. Pharm., Ahmedabad, India

SOURCE: Journal of Pharmaceutical Sciences (1976), 65(5), 660-4

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 85:46566

ED Entered STN: 12 May 1984

AB Eleven thieno[2,3-d]pyrimidin-4(3H)-one-2-thioacetic acid derivs. I[R = Me or RR = (CH<sub>2</sub>)<sub>4</sub>; R<sub>1</sub> = Me, Ph, CH<sub>2</sub>Ph, C<sub>6</sub>H<sub>4</sub>Me-m, -p; R<sub>2</sub> = H, Et] were prepared by condensing ClCH<sub>2</sub>CO<sub>2</sub>R<sub>2</sub> with the 2-mercaptothieno[2,3-d]pyrimidin-4(3H)-ones II, which were obtained by cyclization of the thienylthioureas III. II(R-R<sub>3</sub> = Me) and II[R = R<sub>1</sub> = Me; R = Me, R<sub>1</sub> = Bu; RR = (CH<sub>2</sub>)<sub>4</sub>, R<sub>1</sub> = Me; RR = (CH<sub>2</sub>)<sub>5</sub>, R<sub>1</sub> = allyl] anti bacterial and fungicidal activities and I[RR = (CH<sub>2</sub>)<sub>4</sub>, R<sub>1</sub> = Me, R<sub>2</sub> = H; RR = (CH<sub>2</sub>)<sub>4</sub>, R<sub>1</sub> = CH<sub>2</sub>Ph, R<sub>2</sub> = Et] had analgesic activity.

IT 50629-08-8P 51486-13-6P 59898-39-4P

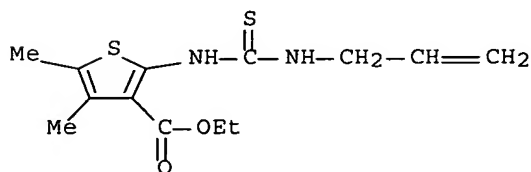
59898-41-8P 59898-45-2P 59898-56-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antibacterial activity of)

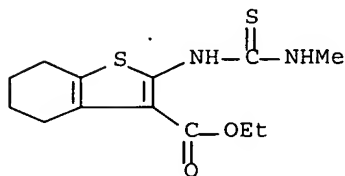
RN 50629-08-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



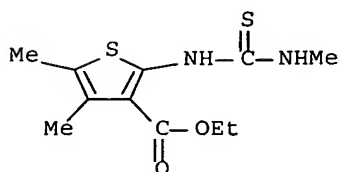
RN 51486-13-6 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[2-(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-39-4 HCAPLUS

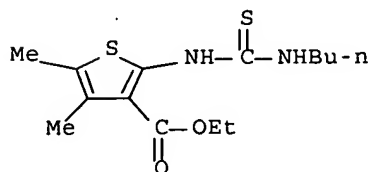
CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[2-(methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)





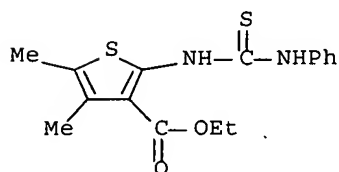
RN 59898-41-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(butylamino)thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



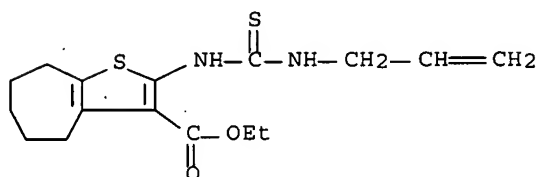
RN 59898-45-2 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-56-5 HCAPLUS

CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 5,6,7,8-tetrahydro-2-[[[(2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



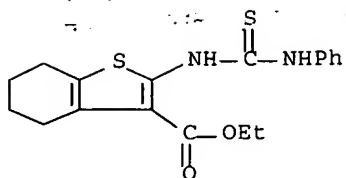
IT 42076-12-0P 59898-51-0P 59898-53-2P

59898-54-3P 59898-55-4P 59898-57-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

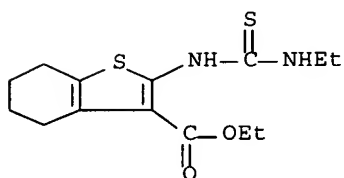
RN 42076-12-0 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



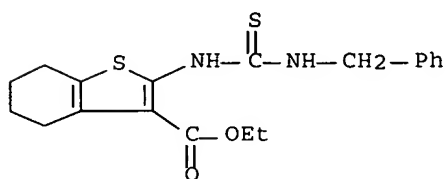
RN 59898-51-0 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



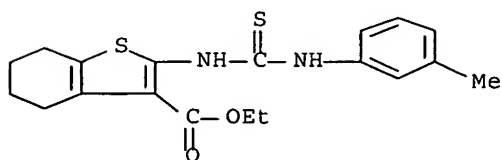
RN 59898-53-2 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(phenylmethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



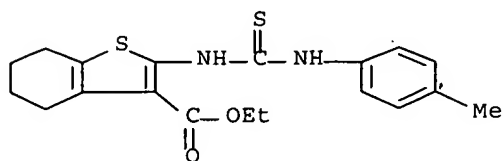
RN 59898-54-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(3-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



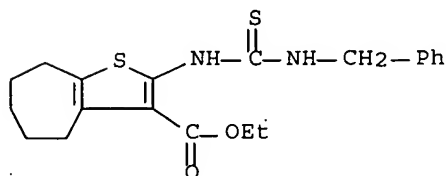
RN 59898-55-4 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-57-6 HCAPLUS

CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 5,6,7,8-tetrahydro-2-[[[(phenylmethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

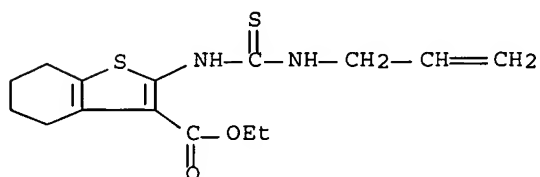


IT 42062-89-5P 59898-40-7P 59898-42-9P  
59898-43-0P 59898-44-1P 59898-46-3P  
59898-47-4P 59898-48-5P 59898-49-6P  
59898-50-9P 59898-52-1P 59898-58-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

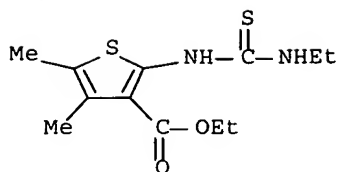
RN 42062-89-5 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[[(2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



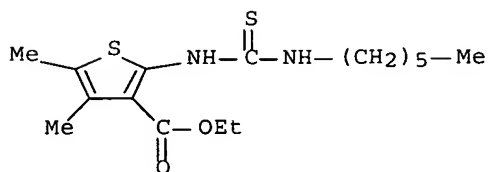
RN 59898-40-7 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



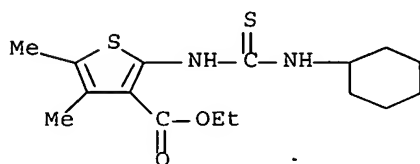
RN 59898-42-9 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(hexylamino)thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



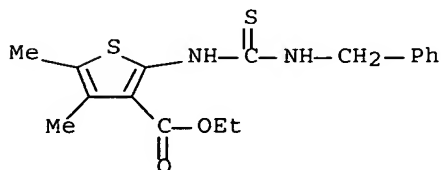
RN 59898-43-0 HCAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[[(cyclohexylamino)thioxomethyl]amino]-4,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-44-1 HCAPLUS

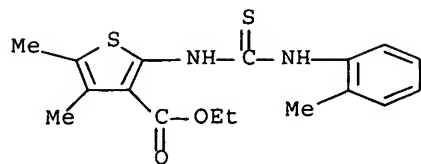
CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(phenylmethyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-46-3 HCAPLUS

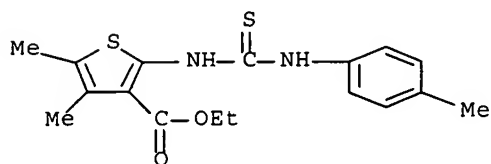
CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(2-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

NAME)



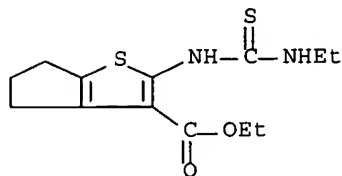
RN 59898-47-4 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4,5-dimethyl-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



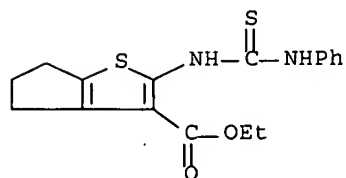
RN 59898-48-5 HCAPLUS

CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 2-[[[(ethylamino)thioxomethyl]amino]-5,6-dihydro-, ethyl ester (9CI) (CA INDEX NAME)

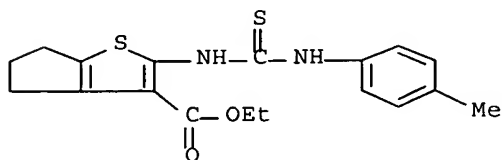


RN 59898-49-6 HCAPLUS

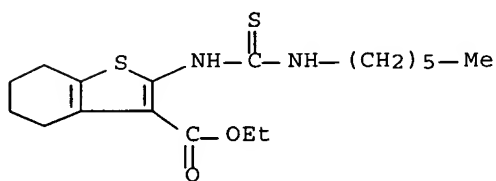
CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 5,6-dihydro-2-[[[(phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



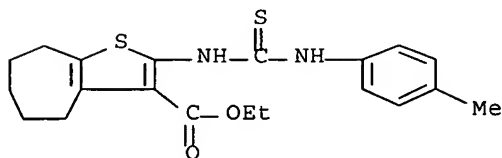
RN 59898-50-9 HCAPLUS  
 CN 4H-Cyclopenta[b]thiophene-3-carboxylic acid, 5,6-dihydro-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 59898-52-1 HCAPLUS  
 CN Benzo[b]thiophene-3-carboxylic acid, 2-[[[(hexylamino)thioxomethyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

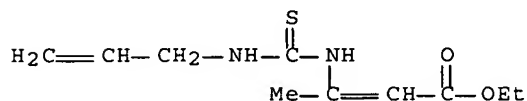


RN 59898-58-7 HCAPLUS  
 CN 4H-Cyclohepta[b]thiophene-3-carboxylic acid, 5,6,7,8-tetrahydro-2-[[[(4-methylphenyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

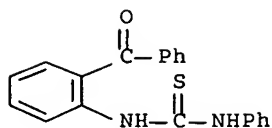


L49 ANSWER 300 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1976:523851 HCAPLUS Full-text  
 DOCUMENT NUMBER: 85:123851  
 TITLE: Synthesis of heterocyclics via enamines: Part III.  
 Reaction of ethyl  $\beta$ -aminocrotonate with allyl  
isothiocyanate  
 AUTHOR(S): Singh, Harjit; Singh, S.; Mehta, R. K.  
 CORPORATE SOURCE: Dep. Chem., Guru Nanak Univ., Amritsar, India

SOURCE.

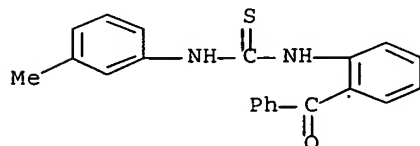


2:



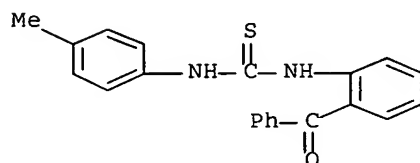
RN 61964-63-4 HCAPLUS

CN Thiourea, N-(2-benzoylphenyl)-N'-(3-methylphenyl)- (9CI) (CA INDEX NAME)



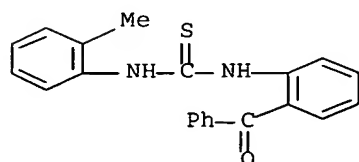
RN 61964-65-6 HCAPLUS

CN Thiourea, N-(2-benzoylphenyl)-N'-(4-methylphenyl)- (9CI) (CA INDEX NAME)



RN 61964-67-8 HCAPLUS

CN Thiourea, N-(2-benzoylphenyl)-N'-(2-methylphenyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 302 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:463017 HCAPLUS Full-text

DOCUMENT NUMBER: 85:63017

TITLE: A new method for the preparation of  
1H,3H-quinazoline-2,4-diones and 1H,3H-quinazoline-2-  
thio-4-ones

AUTHOR(S): Singh, Amrik; Bhandari, Brij M.

CORPORATE SOURCE: Chem. Dep., Guru Nanak Univ., Amritsar, India



SOURCE: Indian Journal of Chemistry, Section B: (Organic Chemistry Including Medicinal Chemistry (1976), 14B(1), 67-8  
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

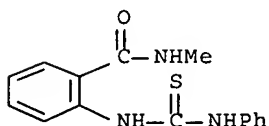
ED Entered STN: 12 May 1984

AB O-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CONHR (R = H, Me, Et, Pr, PhCH<sub>2</sub>, H<sub>2</sub>C:CHCH<sub>2</sub>, p-MeC<sub>6</sub>H<sub>4</sub>) on condensation with R<sub>1</sub>NCS (R<sub>1</sub> = Me, H<sub>2</sub>C:CHCH<sub>2</sub>) gave the quinazolinones I (X = S, R = R<sub>1</sub> = Me, CH<sub>2</sub>:CHCH<sub>2</sub>). Condensation with PhNCS and PhNCO gave the corresponding phenylthioureas and phenylureas which when heated above their m.p. gave I (R = Ph, H, Me, Et, Pr, PhCH<sub>2</sub>, H<sub>2</sub>C:CHCH<sub>2</sub>, p-MeC<sub>6</sub>H<sub>4</sub>; X = O, S).

IT 59968-70-6P 59968-71-7P 59968-72-8P  
59968-73-9P 59968-74-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of, oxoquinazolinethiones from)

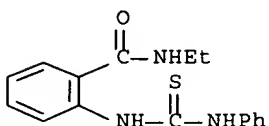
RN 59968-70-6 HCAPLUS

CN Benzamide, N-methyl-2-[[[(phenylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



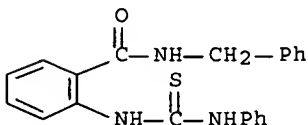
RN 59968-71-7 HCAPLUS

CN Benzamide, N-ethyl-2-[[[(phenylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



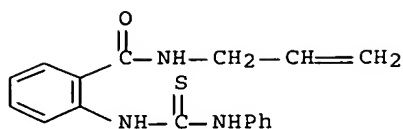
RN 59968-72-8 HCAPLUS

CN Benzamide, 2-[[[(phenylamino)thioxomethyl]amino]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

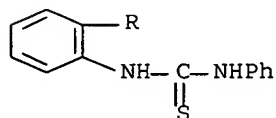
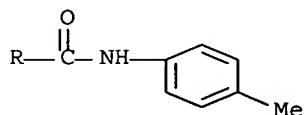


RN 59968-73-9 HCAPLUS

CN Benzamide, 2-[[[(phenylamino)thioxomethyl]amino]-N-2-propenyl- (9CI) (CA INDEX NAME)

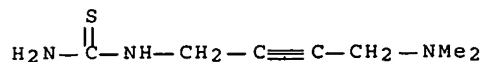


RN 59968-74-0 HCAPLUS  
 CN Benzamide, N-(4-methylphenyl)-2-[[[(phenylamino)thioxomethyl]amino]- (9CI)  
 (CA INDEX NAME)

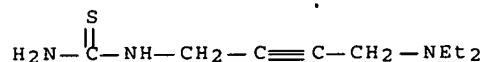


L49 ANSWER 303 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1976:446483 HCAPLUS Full-text  
 DOCUMENT NUMBER: 85:46483  
 TITLE: Synthesis of aminothiazole derivatives. Part 2  
 AUTHOR(S): Ferrand, Gerard; Eloy, Fernand; Cabrol, A.;  
 St.-Blancat, A.  
 CORPORATE SOURCE: Dep. Rech. Dev., Parcor, Toulouse, Fr.  
 SOURCE: European Journal of Medicinal Chemistry (1976  
 ), 11(1), 49-55  
 CODEN: EJMCA5; ISSN: 0223-5234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 OTHER SOURCE(S): CASREACT 85:46483  
 ED Entered STN: 12 May 1984  
 AB Aminothiazoles I(NRR1 = NMe2, NEt2, NBu2, NEtCH2Ph, pyrrolidino, piperidino,  
 morpholino, R2 = R3 = H; R = R1 = Et, R2 = Me, Bu, R3 = H; R = cyclohexyl, R1-  
 R3 = Et) were prepared by aromatizing and dealkylating II (R2 = CHMe2,  
 cycloalkyl) with H2SO4 or by treating EtO2CNCS with H2NCH2C.tplbond.CCH2NRR1,  
 cyclizing EtO2CNHCSNHCH2C.tplbond.CCH2NRR1, and treating II (R2 = CO2Et, R3 =  
 H) with H2SO4. The thiazolines III were obtained by treating  
 H2NCH2CH:CHCH2NRR1 with CS2, treating SCNCH2CH:CHCH2NRR1 with NH3, and  
 cyclizing H2NCSNHCH2CH:CHCH2NRR1. I-III (R2 = R3 = H) lost the  
 anticholesteremic and antilipemic activity of I-III (R2 = cycloalkyl, R2 = H),  
 but have hypotensive and vasodilator activity (no data).  
 IT 59961-50-1P 59961-51-2P 59961-52-3P  
59961-72-7P 59961-73-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

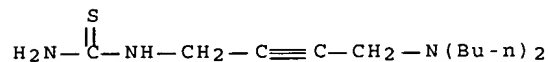
azides, RN 59961-50-1 HCAPLUS Thiourea, [4-(dimethylamino)-2-butynyl]- (9CI) (CA-INDEX NAME)



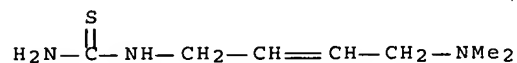
RN 59961-51-2 HCAPLUS  
CN Thiourea, [4-(diethylamino)-2-butynyl]- (9CI) (CA INDEX NAME)



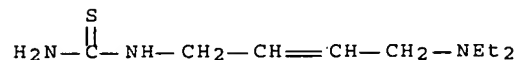
RN 59961-52-3 HCAPLUS  
CN Thiourea, [4-(dibutylamino)-2-butynyl]- (9CI) (CA INDEX NAME)



RN 59961-72-7 HCAPLUS  
CN Thiourea, [4-(dimethylamino)-2-butenyl]- (9CI) (CA INDEX NAME)

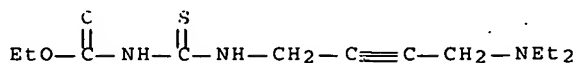


RN 59961-73-8 HCAPLUS  
CN Thiourea, [4-(diethylamino)-2-butenyl]- (9CI) (CA INDEX NAME)



IT 59961-63-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation of cyclization of)

RN 59961-63-6 HCAPLUS  
CN Carbamic acid, [[[4-(diethylamino)-2-butynyl]amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)

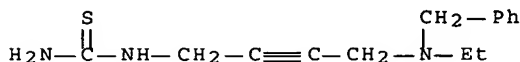


IT 59961-62-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with ethoxycarbonylisothiocyanate)

RN 59961-62-5 HCAPLUS

CN Thiourea, [4-[ethyl(phenylmethyl)amino]-2-butynyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 304 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:180165 HCAPLUS Full-text

DOCUMENT NUMBER: 84:180165

TITLE: Synthetic sympatholytics. Part IV. 1-Aryl- and 1-(arylmethyl)-4-guanylpiperazines and other heterocyclic and alicyclic guanidine derivatives  
AUTHOR(S): Protiva, M.; Rajsner, M.; Trcka, V.; Vanecek, M.; Nemec, J.; Sedivy, Z.  
CORPORATE SOURCE: Res. Inst. Pharm. Biochem., Prague, Czech.  
SOURCE: Collection of Czechoslovak Chemical Communications (1975), 40(12), 3904-23  
CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 84:180165

ED Entered STN: 12 May 1984

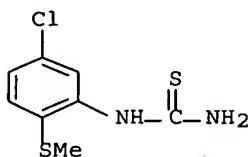
AB The title compds. were prepared as potential adrenergic neurone blocking and antihypertensive agents. I (Ar = Ph, 2-, 3- and 4-MeC6H4, 2-, 3- and 4-ClC6H4, 2-, 3-, and 4-MeOC6H4, 2-, 3-, and 4-MeSC6H4, 2-FC6H4, 2- and 4-O2NC6H4; n = 0 or 1) were obtained from the corresponding 1-aryl- and 1-(arylmethyl)piperazines by treatment with MeSC(:NH)NH2 hemisulfate (III) in boiling H2O or aqueous EtOH. Similarly 4-aryl- and 4-(arylmethyl)piperidines gave II (Ar = Ph or 4-MeC6H4; n = 0 or 1; R = H, OH, CONH2 or CH2OH). 1-Amino-4-phenylpiperidine similarly gave 1-guanidino-4-phenylpiperidine. 8-(2-Aminoethyl)-cis-8- azabicyclo[4.3.0]nonane and 2-(2-aminoethyl)-cis-2-azabicyclo[3.3.0]octane treated with III gave IV and 2-(2-guanidinoethyl)-cis-2- azabicyclo[3.3.0]octane, resp. N-(1-methyl-1-cyclohexyl)-N',N''-dimethylguanidine was prepared from 1-methylcyclohexylamine by treatment with MeNCS, followed by methylation with MeI and treatment with MeNH2 in aqueous MeOH. V (R = H or Cl) resulted similarly from 2-(methylthio)aniline and its 5-chloro derivative via the corresponding N-arylthioureas which were treated with MeI and the products reacted with NH2(CH2)2NH2. The guanidines and imidazolines prepared were pharmacol. tested (full data described). Only IV (guanisoline) resembled guanethidine in animal tests but was of low activity in hypertensive patients.

IT 59083-49-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 59083-49-7 HCAPLUS

CN Thiourea, [5-chloro-2-(methylthio)phenyl] - (9CI) (CA INDEX NAME)

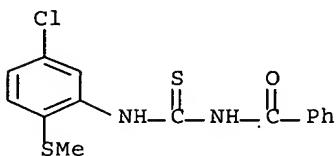


IT 59083-48-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and hydrolysis of)

RN 59083-48-6 HCAPLUS

CN Benzamide, N-[[[5-chloro-2-(methylthio)phenyl]amino]thioxomethyl] - (9CI)  
(CA INDEX NAME)

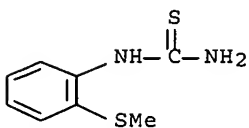


IT 59084-10-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and methylation of)

RN 59084-10-5 HCAPLUS

CN Thiourea, [2-(methylthio)phenyl] - (9CI) (CA INDEX NAME)



L49 ANSWER 305 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:458702 HCAPLUS Full-text

DOCUMENT NUMBER: 83:58702

TITLE: 2-Amino-2-thiazoline. VIII. Nonregioselective  
reaction of 2-amino-2-thiazoline with benzoyl  
isothiocyanate to give a thermally unstable  
thiourea and a thiazolotriazine

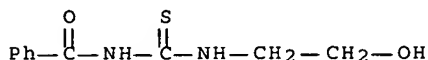
AUTHOR(S): Klayman, Daniel L.; Woods, Thomas S.

CORPORATE SOURCE: Div. Med. Chem., Walter Reed Army Inst. Res.,  
Washington, DC, USA

SOURCE: Journal of Organic Chemistry (1975), 40(13),  
2000-2

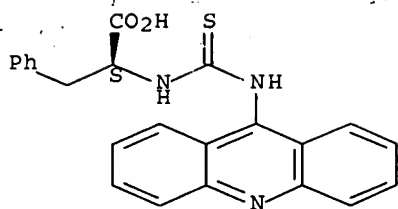
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 83:58702  
ED Entered STN: 12 May 1984  
AB The thiazoline I (R = H) was treated with PhCONCS to give I (R = CSNHCOPh), the thiazoline thiocyanate II, and the thiazolotriazinethione III. II was prepared by cyclization of PhCONHCSNHCH<sub>2</sub>CH<sub>2</sub>OH with H<sub>2</sub>SO<sub>4</sub> followed by HSCN.  
IT 29146-60-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)  
RN 29146-60-9 HCAPLUS  
CN Benzamide, N-[[[(2-hydroxyethyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 306 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1975:563972 HCAPLUS Full-text  
DOCUMENT NUMBER: 83:163972  
TITLE: Polycyclic aromatic isothiocyanate compounds as fluorescent labeling reagents  
AUTHOR(S): Sinsheimer, J. E.; Jagodic, V.; Polak, Lj.; Hong, D. D.; Burckhalter, J. H.  
CORPORATE SOURCE: Coll. Pharm., Univ. Michigan, Ann Arbor, MI, USA  
SOURCE: Journal of Pharmaceutical Sciences (1975), 64(6), 925-30  
CODEN: JPMSAE; ISSN: 0022-3549  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
ED Entered STN: 12 May 1984  
AB Polycyclic isothiocyanates and their derivs. I [R = NCS, H, NHCSNHR<sub>2</sub> (R<sub>2</sub> = CH<sub>2</sub>Ph, CH<sub>2</sub>CO<sub>2</sub>H, R<sub>1</sub> = H, NCS, Me), II (R = NCS, NHCSNHBu), III (R = NCS, NHCSNHCH<sub>2</sub>Ph, and IV [R = NHCSNHR<sub>4</sub> (R<sub>4</sub> = Bu, Ph, CH<sub>2</sub>CO<sub>2</sub>H, NHCSNHR<sub>2</sub>, NHCSOEt, NHCSNHCH<sub>2</sub>CH<sub>2</sub>NEt<sub>2</sub>, CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>R<sub>4</sub>-4 (R<sub>4</sub> = NH<sub>2</sub>, NCS), NHCH<sub>2</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NCS-4, etc.; R<sub>1</sub> = H, MeO, NCS, NHCSNHCH<sub>2</sub>Ph; R<sub>2</sub> = H, Cl] were prepared and evaluated as potential protein labeling reagents and in fluorescent microanalysis of amines. 9-Acridine derivs. were the most promising.  
IT 56946-43-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)  
RN 56946-43-1 HCAPLUS  
CN L-Phenylalanine, N-[(9-acridinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

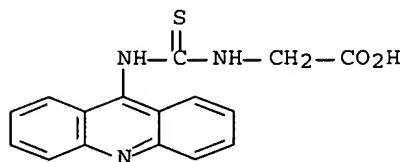


IT 56946-39-5P 57002-49-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and fluorescence of)

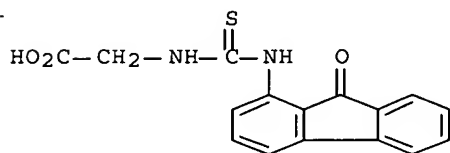
RN 56946-39-5 HCAPLUS

CN Glycine, N-[(9-acridinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



RN 57002-49-0 HCAPLUS

CN Glycine, N-[[[(9-oxo-9H-fluoren-1-yl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 307 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:458385 HCAPLUS Full-text

DOCUMENT NUMBER: 83:58385

TITLE: Synthesis of new antimicrobials. V. Synthesis of  
alkylenebis(thiosemicarbazides) and their related  
compounds

AUTHOR(S): Yabuuchi, Takahiro; Hisaki, Masakatu; Kimura, Ryuichi

CORPORATE SOURCE: Res. Inst. Prod. Dev., Kyoto, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1975),  
23(3), 668-73

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Alkylenebis(thiosemicarbazide) and alkylenebis(bithiourea) derivs. were  
synthesized in order to examine their antimicrobial activity. 1,1'-

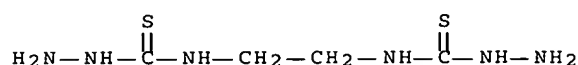
Dibenzylidene-4,4'-alkylenebis(thiosemicarbazides), e.g.  $\text{PhCH:NHNHCSNH(CH}_2)_4\text{NHCNHNH:CHPh}$ , were prepared from 4,4'-alkylenebis(thiosemicarbazides) and arylaldehydes, and 1,1'-diaroyl-4,4'-hexamethylenebis(thiosemicarbazides) were prepared by the reaction of 4',4'-hexamethylenebis(thiosemicarbazide) with aryl chlorides. 1,1'-Dialkyl- or diaryl-6,6'-alkylenebis(bithioureas) were synthesized from 4,4'-alkylenebis(thiosemicarbazides) and alkyl or aryl isothiocyanates. N,N'-Hexamethylenebis[2-amino-5-(2-methoxyphenyl)thiadiazole] (I) was prepared by the ring closure of 1,1'-bis(2-methoxybenzylidene)-4,4'-hexamethylenebis(thiosemicarbazide).

IT 1728-65-0P 1728-66-1P 56473-13-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and condensation reactions of)

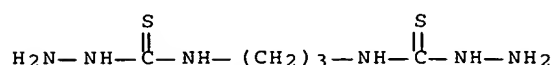
RN 1728-65-0 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis- (9CI) (CA INDEX NAME)



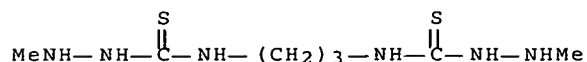
RN 1728-66-1 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,3-propanediylbis- (9CI) (CA INDEX NAME)



RN 56473-13-3 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,3-propanediylbis[2-methyl- (9CI) (CA INDEX NAME)]

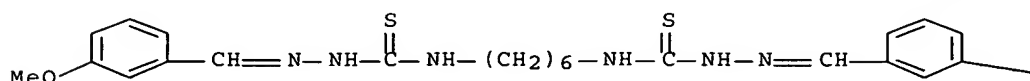


IT 56473-26-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 56473-26-8 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(3-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)]



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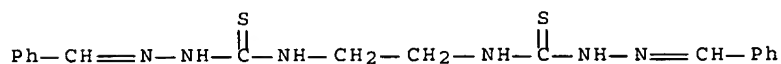
$\text{— OMe}$ 

IT	<u>15307-54-7P</u>	<u>15307-55-8P</u>	<u>15307-57-0P</u>
	<u>15307-59-2P</u>	<u>56473-12-2P</u>	<u>56473-14-4P</u>
	<u>56473-15-5P</u>	<u>56473-16-6P</u>	<u>56473-17-7P</u>
	<u>56473-18-8P</u>	<u>56473-19-9P</u>	<u>56473-20-2P</u>
	<u>56473-21-3P</u>	<u>56473-22-4P</u>	<u>56473-23-5P</u>
	<u>56473-24-6P</u>	<u>56473-25-7P</u>	<u>56473-27-9P</u>
	<u>56473-28-0P</u>	<u>56473-29-1P</u>	<u>56473-30-4P</u>
	<u>56473-31-5P</u>	<u>56473-32-6P</u>	<u>56473-33-7P</u>
	<u>56473-34-8P</u>	<u>56473-35-9P</u>	<u>56473-36-0P</u>
	<u>56473-37-1P</u>	<u>56473-38-2P</u>	<u>56473-39-3P</u>
	<u>56473-40-6P</u>	<u>56473-41-7P</u>	<u>56473-42-8P</u>
	<u>56473-43-9P</u>	<u>56473-44-0P</u>	<u>56473-45-1P</u>
	<u>56473-46-2P</u>	<u>56473-47-3P</u>	<u>56473-48-4P</u>
	<u>56473-49-5P</u>	<u>56473-50-8P</u>	<u>56473-51-9P</u>
	<u>56473-52-0P</u>	<u>56473-53-1P</u>	<u>56473-54-2P</u>
	<u>56473-55-3P</u>	<u>56473-56-4P</u>	<u>56473-57-5P</u>
	<u>56473-58-6P</u>	<u>56473-59-7P</u>	<u>56473-60-0P</u>
	<u>56473-61-1P</u>	<u>56473-62-2P</u>	<u>56473-63-3P</u>
	<u>56473-64-4P</u>	<u>56513-55-4P</u>	<u>56602-52-9P</u>

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 15307-54-7 HCAPLUS

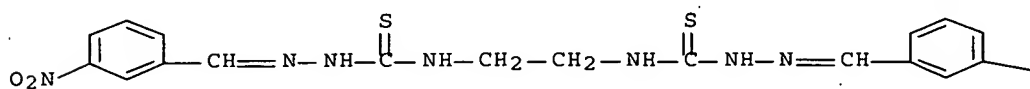
CN     Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-(phenylmethylene)- (9CI)  
          (CA INDEX NAME)



RN 15307-55-8 HCAPLUS

CN	Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-[(3-nitrophenyl)methylene]- (9CI) (CA INDEX NAME)
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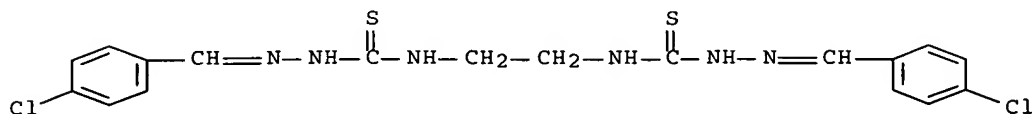
PAGE 1-A



—NO<sub>2</sub>

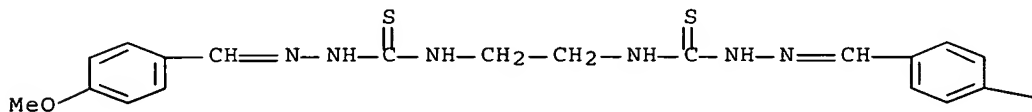
RN 15307-57-0 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 15307-59-2 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



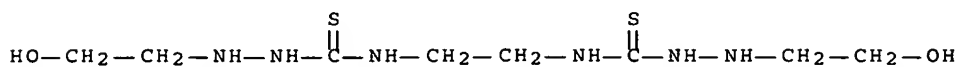
PAGE 1-A

PAGE 1-B

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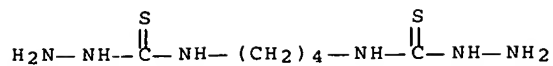
RN 56473-12-2 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



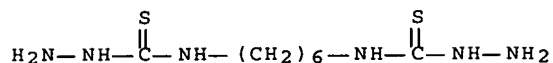
RN 56473-14-4 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,4-butanediylbis- (9CI) (CA INDEX NAME)



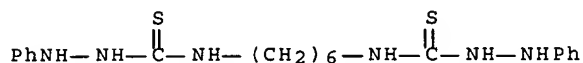
RN 56473-15-5 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis- (9CI) (CA INDEX NAME)



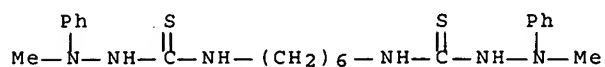
RN 56473-16-6 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-phenyl- (9CI) (CA INDEX NAME)]



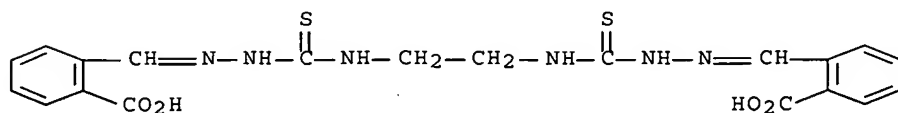
RN 56473-17-7 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-methyl-2-phenyl- (9CI) (CA INDEX NAME)]



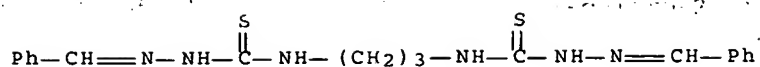
RN 56473-18-8 HCAPLUS

CN Benzoic acid, 2,2'-(4,9-dithioxo-2,3,5,8,10,11-hexaazadodeca-1,11-diene-1,12-diyl)bis- (9CI) (CA INDEX NAME)



RN 56473-19-9 HCAPLUS

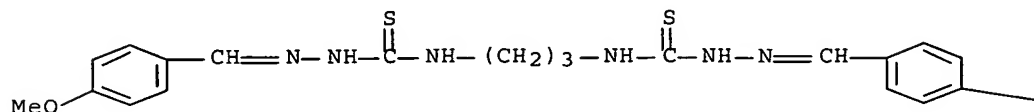
CN Hydrazinecarbothioamide, N,N'-1,3-propanediylbis[2-(phenylmethylene)- (9CI) (CA INDEX NAME)]



RN 56473-20-2 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,3-propanediylbis[2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

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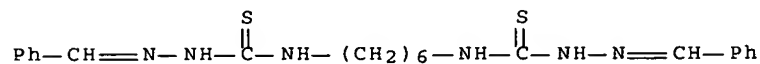


PAGE 1-B

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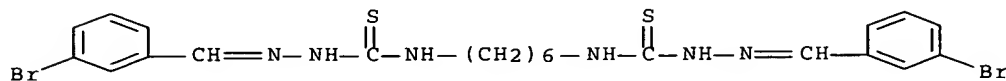
RN 56473-21-3 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-(phenylmethylene)- (9CI) (CA INDEX NAME)



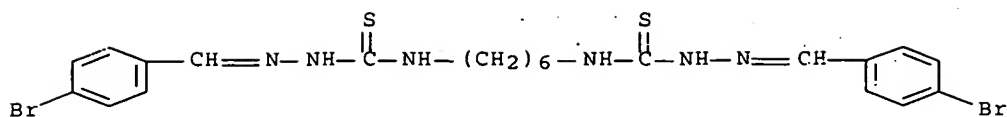
RN 56473-22-4 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(3-bromophenyl)methylene]- (9CI) (CA INDEX NAME)



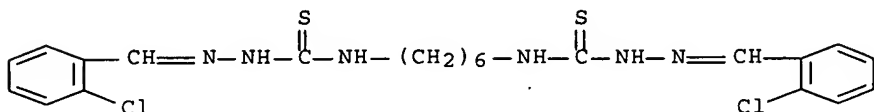
RN 56473-23-5 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(4-bromophenyl)methylene]- (9CI) (CA INDEX NAME)



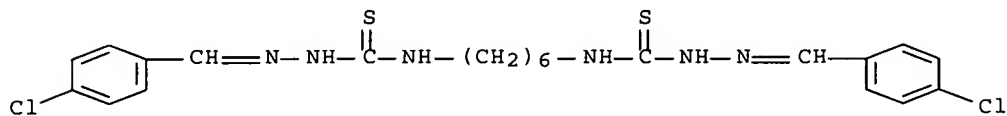
RN 56473-24-6 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



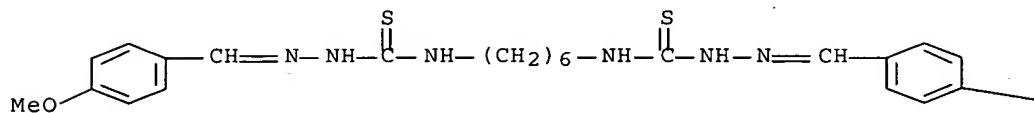
RN 56473-25-7 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 56473-27-9 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



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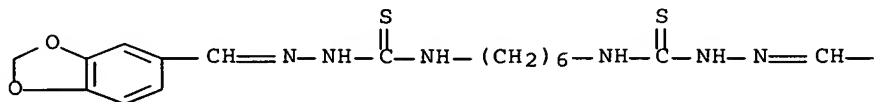
PAGE 1-B

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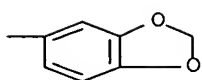
RN 56473-28-0 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-(1,3-benzodioxol-5-ylmethylene)- (9CI) (CA INDEX NAME)

PAGE 1-A



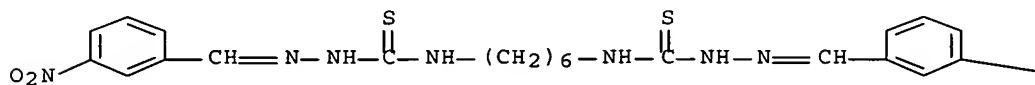
PAGE 1-B



RN 56473-29-1 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(3-nitrophenyl)methylene]- (9CI) (CA INDEX NAME)

PAGE 1-A



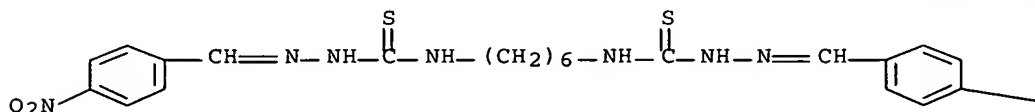
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RN 56473-30-4 HCAPLUS

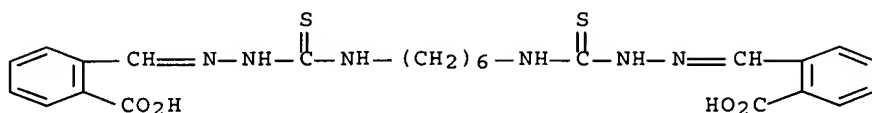
CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-[(4-nitrophenyl)methylene]- (9CI) (CA INDEX NAME)

PAGE 1-A

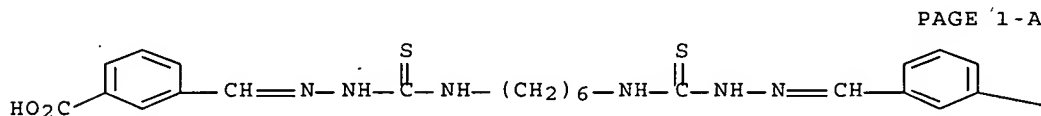


—NO<sub>2</sub>

RN 56473-31-5 HCAPLUS  
 CN Benzoic acid, 2,2'-(4,13-dithioxo-2,3,5,12,14,15-hexaazahexadeca-1,15-diene-1,16-diyl)bis- (9CI) (CA INDEX NAME)



RN 56473-32-6 HCAPLUS  
 CN Benzoic acid, 3,3'-(4,13-dithioxo-2,3,5,12,14,15-hexaazahexadeca-1,15-diene-1,16-diyl)bis- (9CI) (CA INDEX NAME)

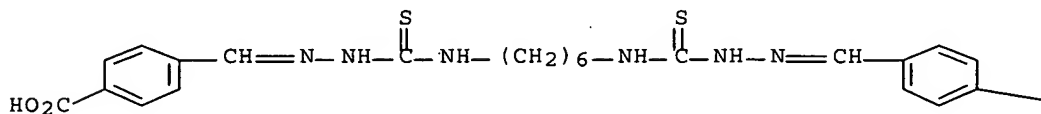


PAGE 1-A

PAGE 1-B

—CO<sub>2</sub>H

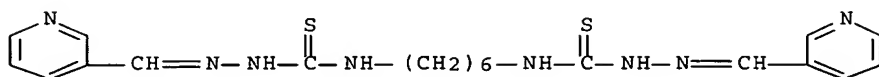
RN 56473-33-7 HCAPLUS  
 CN Benzoic acid, 4,4'-(4,13-dithioxo-2,3,5,12,14,15-hexaazahexadeca-1,15-diene-1,16-diyl)bis- (9CI) (CA INDEX NAME)



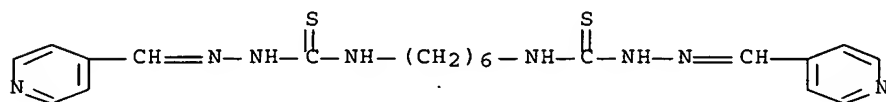
PAGE 1-A

—CO<sub>2</sub>H

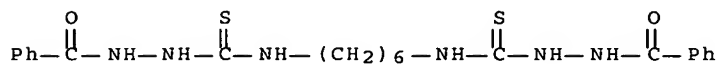
RN 56473-34-8 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-(3-pyridinylmethylene)-  
(9CI) (CA INDEX NAME)

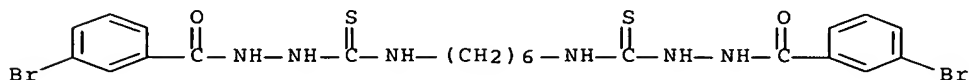
RN 56473-35-9 HCAPLUS

CN Hydrazinecarbothioamide, N,N'-1,6-hexanediylbis[2-(4-pyridinylmethylene)-  
(9CI) (CA INDEX NAME)]

RN 56473-36-0 HCAPLUS

CN Benzoic acid, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide  
(9CI) (CA INDEX NAME)

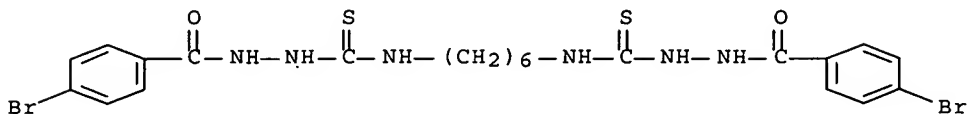
RN 56473-37-1 HCAPLUS

CN Benzoic acid, 3-bromo-, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide  
(9CI) (CA INDEX NAME)



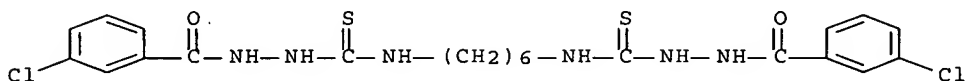
RN 56473-38-2 HCAPLUS

CN Benzoic acid, 4-bromo-, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide (9CI) (CA INDEX NAME)



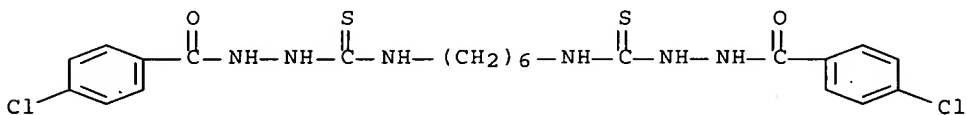
RN 56473-39-3 HCAPLUS

CN Benzoic acid, 3-chloro-, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide (9CI) (CA INDEX NAME)



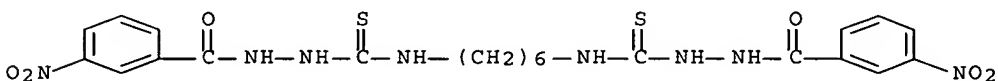
RN 56473-40-6 HCAPLUS

CN Benzoic acid, 4-chloro-, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide (9CI) (CA INDEX NAME)



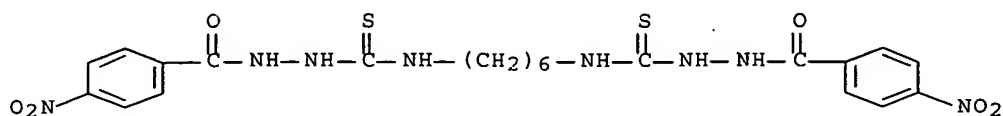
RN 56473-41-7 HCAPLUS

CN Benzoic acid, 3-nitro-, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide (9CI) (CA INDEX NAME)



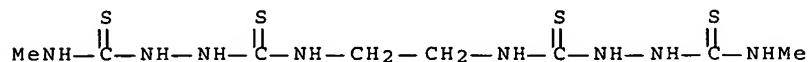
RN 56473-42-8 HCAPLUS

CN Benzoic acid, 4-nitro-, 2,2'-[1,6-hexanediylbis(iminocarbonothioyl)]dihydrazide (9CI) (CA INDEX NAME)



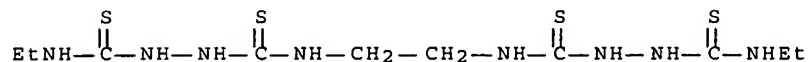
RN 56473-43-9 HCAPLUS

CN 2,3,5,8,10,11-Hexaazadodecanedithioamide, N,N'-dimethyl-4,9-dithioxo-  
(9CI) (CA INDEX NAME)



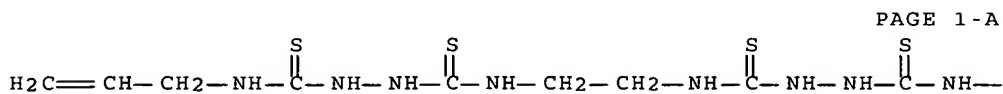
RN 56473-44-0 HCAPLUS

CN 2,3,5,8,10,11-Hexaazadodecanedithioamide, N,N'-diethyl-4,9-dithioxo- (9CI)  
(CA INDEX NAME)



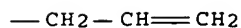
RN 56473-45-1 HCAPLUS

CN 2,3,5,8,10,11-Hexaazadodecanedithioamide, N,N'-di-2-propenyl-4,9-dithioxo-  
(9CI) (CA INDEX NAME)



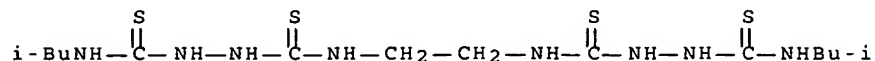
PAGE 1-A

PAGE 1-B

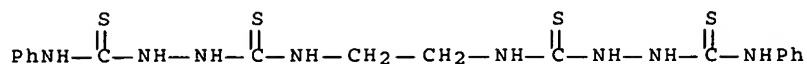


RN 56473-46-2 HCAPLUS

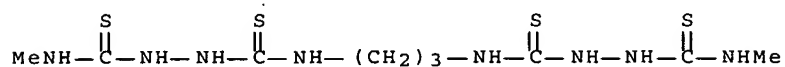
CN 2,3,5,8,10,11-Hexaazadodecanedithioamide, N,N'-bis(2-methylpropyl)-4,9-  
dithioxo- (9CI) (CA INDEX NAME)



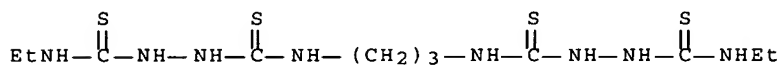
RN 56473-47-3 HCAPLUS  
 CN 2,3,5,8,10,11-Hexaazadodecanedithioamide, N,N'-diphenyl-4,9-dithioxo-  
 (9CI) (CA INDEX NAME)



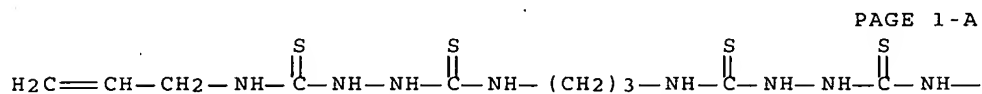
RN 56473-48-4 HCAPLUS  
 CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-dimethyl-4,10-dithioxo-  
 (9CI) (CA INDEX NAME)



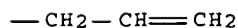
RN 56473-49-5 HCAPLUS  
 CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-diethyl-4,10-dithioxo-  
 (9CI) (CA INDEX NAME)



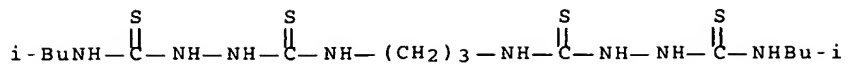
RN 56473-50-8 HCAPLUS  
 CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-di-2-propenyl-4,10-  
 dithioxo- (9CI) (CA INDEX NAME)



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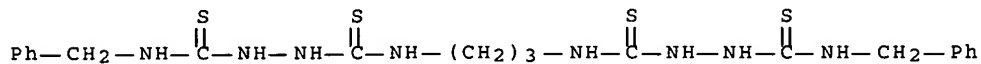


RN 56473-51-9 HCAPLUS  
 CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-bis(2-methylpropyl)-4,10-  
 dithioxo- (9CI) (CA INDEX NAME)



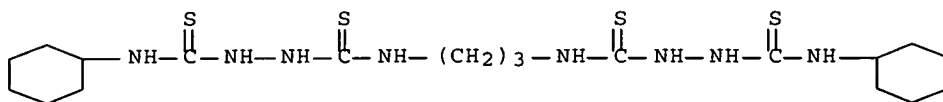
RN 56473-52-0 HCAPLUS

CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-bis(phenylmethyl)-4,10-dithioxo- (9CI) (CA INDEX NAME)



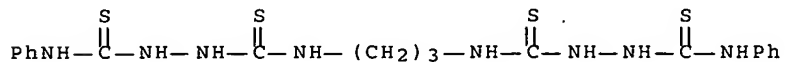
RN 56473-53-1 HCAPLUS

CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-dicyclohexyl-4,10-dithioxo- (9CI) (CA INDEX NAME)



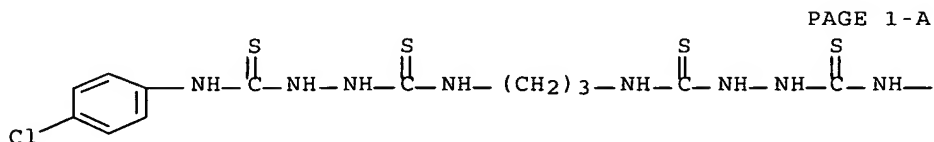
RN 56473-54-2 HCAPLUS

CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-diphenyl-4,10-dithioxo- (9CI) (CA INDEX NAME)

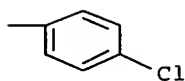


RN 56473-55-3 HCAPLUS

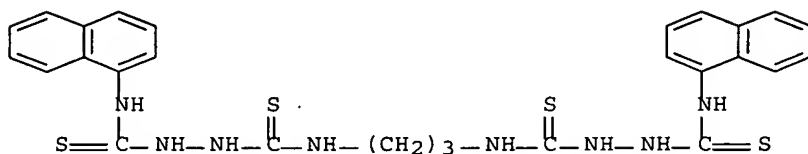
CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-bis(4-chlorophenyl)-4,10-dithioxo- (9CI) (CA INDEX NAME)



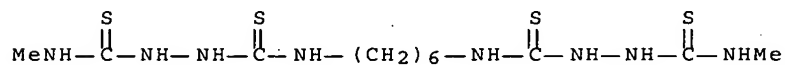
PAGE 1-A



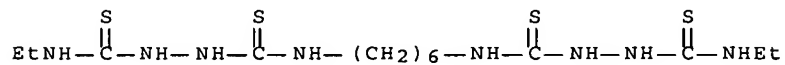
RN 56473-56-4 HCAPLUS  
CN 2,3,5,9,11,12-Hexaazatridecanedithioamide, N,N'-di-1-naphthalenyl-4,10-dithioxo- (9CI) (CA INDEX NAME)



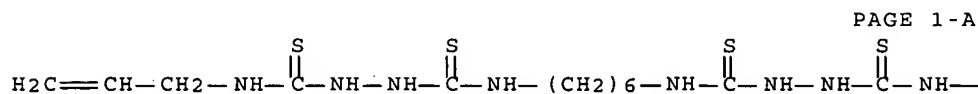
RN 56473-57-5 HCAPLUS  
CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-dimethyl-4,13-dithioxo- (9CI) (CA INDEX NAME)



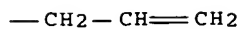
RN 56473-58-6 HCAPLUS  
CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-diethyl-4,13-dithioxo- (9CI) (CA INDEX NAME)



RN 56473-59-7 HCAPLUS  
CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-di-2-propenyl-4,13-dithioxo- (9CI) (CA INDEX NAME)

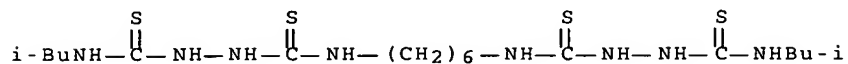


PAGE 1-A



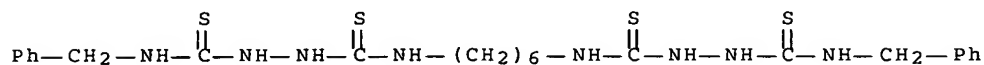
RN 56473-60-0 HCAPLUS

CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-bis(2-methylpropyl)-4,13-dithioxo- (9CI) (CA INDEX NAME)



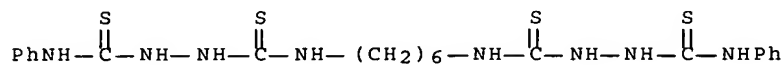
RN 56473-61-1 HCAPLUS

CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-bis(phenylmethyl)-4,13-dithioxo- (9CI) (CA INDEX NAME)



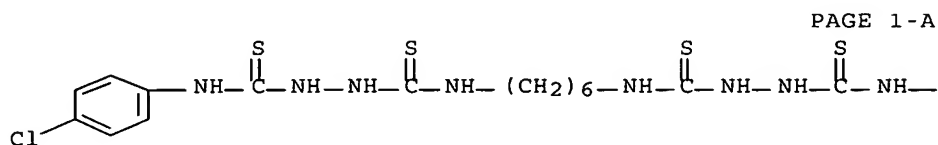
RN 56473-62-2 HCAPLUS

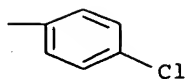
CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-diphenyl-4,13-dithioxo- (9CI) (CA INDEX NAME)



RN 56473-63-3 HCAPLUS

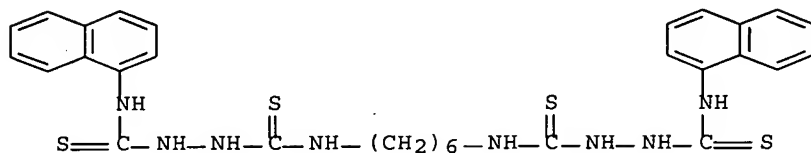
CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-bis(4-chlorophenyl)-4,13-dithioxo- (9CI) (CA INDEX NAME)





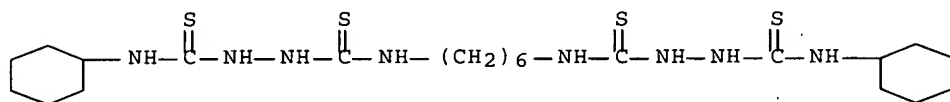
RN 56473-64-4 HCAPLUS

CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-di-1-naphthalenyl-4,13-dithioxo- (9CI) (CA INDEX NAME)



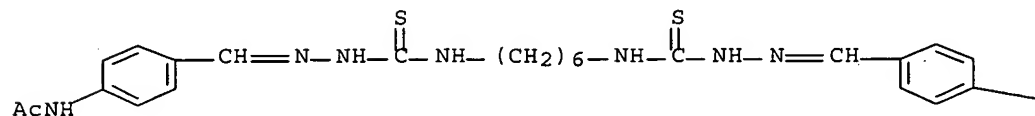
RN 56513-55-4 HCAPLUS

CN 2,3,5,12,14,15-Hexaazahexadecanedithioamide, N,N'-dicyclohexyl-4,13-dithioxo- (9CI) (CA INDEX NAME)



RN 56602-52-9 HCAPLUS

CN Acetamide, N,N'-[1,6-hexanediylbis(iminocarbonothioyl-2-hydrazinyl-1-ylidenemethylidyne-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



—NHAc

L49 ANSWER 308 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:164663 HCAPLUS Full-text

DOCUMENT NUMBER: 84:164663

TITLE: Synthesis and pharmacological properties of  
aminothiazole derivatives

AUTHOR(S): Ferrand, G.; Maffrand, J. P.; Eloy, F.; Ferrand, J. C.

CORPORATE SOURCE: Dep. Rech. Dev., Castaigne S. A., Toulouse, Fr.

SOURCE: European Journal of Medicinal Chemistry (1975  
, 10(6), 549-56

CODEN: EJMCA5; ISSN: 0223-5234

DOCUMENT TYPE: Journal

LANGUAGE: French

OTHER SOURCE(S): CASREACT 84:164663

ED Entered STN: 12 May 1984

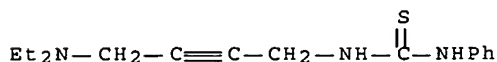
AB The aminoethylidenethiazolines I (R = C1-8 alkyl, aralkyl, C5-8 cycloalkyl, R1 = H; NR1R2 = NMe2, morpholino, substituted piperazino; NR2R3 = NMe2, NMe2, pyrrolidino, piperidino, morpholino, N-4-chlorophenylpiperazino, N-methyl-N-cyclohexylamino NEtCH2Ph) were prepared by treating H2NCH2C(=S)CH2NR2R3 with RNCS or with CS2 and HNRR1. II were obtained by treating I with HBr-HOAc. I and II are anticholesteremics and antilipemics. I (R = cycloalkyl) are the most active.

IT 59037-66-0P 59037-67-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 59037-66-0 HCAPLUS

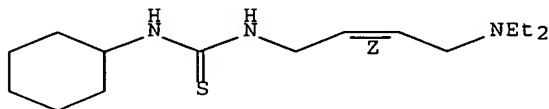
CN Thiourea, N-[4-(diethylamino)-2-butyryl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 59037-67-1 HCAPLUS

CN Thiourea, N-cyclohexyl-N'-[4-(diethylamino)-2-butenyl]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L49 ANSWER 309 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:74199 HCAPLUS Full-text

DOCUMENT NUMBER: 84:74199

TITLE: Synthesis of nitrogen-15-labeled 2-substituted-2-thiazolines and analogous thiazines

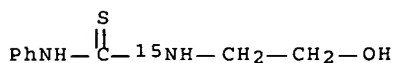
AUTHOR(S): Volford, J.; Banfi, D.



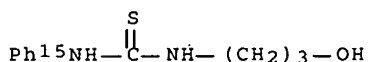
CORPORATE SOURCE: Inst. Med. Res., Budapest, Hung.  
 SOURCE: Journal of Labelled Compounds (1975), 11(3),  
 419-26  
 CODEN: JLCAAI; ISSN: 0022-2135  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 ED Entered STN: 12 May 1984  
 AB 2-Phenylamino-2-thiazoline and the analogous 1,3-thiazine, containing exo-,  
 and endo-15N-labeled nitrogens, resp., were prepared. The isotope effect of  
 the labeled compds. could be registered in the ir spectra.  
 IT 58551-05-6P 58551-06-7P 58551-07-8P  
58551-08-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 58551-05-6 HCAPLUS  
 CN Thiourea-15N, N'-(2-hydroxyethyl)-N-phenyl- (9CI) (CA INDEX NAME)



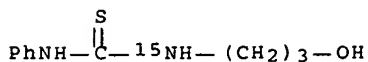
RN 58551-06-7 HCAPLUS  
 CN Thiourea-15N, N'-(2-hydroxyethyl)-N'-phenyl- (9CI) (CA INDEX NAME)



RN 58551-07-8 HCAPLUS  
 CN Thiourea-15N, N'-(3-hydroxypropyl)-N-phenyl- (9CI) (CA INDEX NAME)

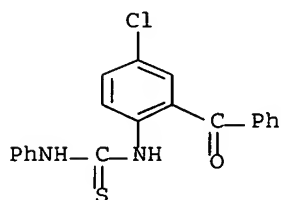


RN 58551-08-9 HCAPLUS  
 CN Thiourea-15N, N'-(3-hydroxypropyl)-N'-phenyl- (9CI) (CA INDEX NAME)

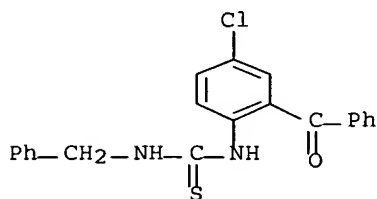


L49 ANSWER 310 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1975:514330 HCAPLUS Full-text  
 DOCUMENT NUMBER: 83:114330

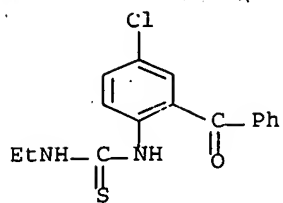
TITLE: New synthesis of 2-amino derivatives of  
 6-chloro-4-phenylquinazoline 3-oxide  
 AUTHOR(S): Metallidis, A.; Sotiriadis, A.; Theodoropoulos, D.  
 CORPORATE SOURCE: Lab. Org. Chem., Univ. Patras, Patrai, Greece  
 SOURCE: Journal of Heterocyclic Chemistry (1975),  
 12(2), 359-60  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 83:114330  
 ED Entered STN: 12 May 1984  
 AB Reaction of 5,2-Cl(H<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>Bz with RNCS gave 4,2-Cl(Bz)C<sub>6</sub>H<sub>3</sub>NHCSNHR, which  
 cyclized with H<sub>2</sub>NOH to give quinazolines I (R = Ph, PhCH<sub>2</sub>, Et, allyl).  
 IT 56664-18-7P 56664-19-8P 56664-20-1P  
56664-21-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, quinazolines from)  
 RN 56664-18-7 HCAPLUS  
 CN Thiourea, N-(2-benzoyl-4-chlorophenyl)-N'-phenyl- (9CI) (CA INDEX NAME)



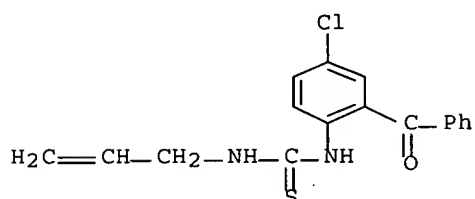
RN 56664-19-8 HCAPLUS  
 CN Thiourea, N-(2-benzoyl-4-chlorophenyl)-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



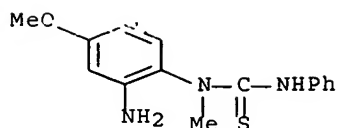
RN 56664-20-1 HCAPLUS  
 CN Thiourea, N-(2-benzoyl-4-chlorophenyl)-N'-ethyl- (9CI) (CA INDEX NAME)



RN 56664-21-2 HCAPLUS  
 CN Thiourea, N-(2-benzoyl-4-chlorophenyl)-N'-2-propenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 311 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1976:135542 HCAPLUS Full-text  
 DOCUMENT NUMBER: 84:135542  
 TITLE: Synthesis and ring closure reactions of some  
 N-(o-aminophenyl)-N-methyl-N',N''-disubstituted  
 guanidines and of N-(2-amino-4-methoxyphenyl)-N-methyl-  
 N'-phenylthiourea  
 AUTHOR(S): Lugosi, Peter; Agai, Bela; Hornyak, Gyula  
 CORPORATE SOURCE: Dep. Org. Chem., Tech. Univ. Budapest, Budapest, Hung.  
 SOURCE: Periodica Polytechnica, Chemical Engineering (1975), 19(4), 307-16  
 CODEN: PDPTAE; ISSN: 0324-5853  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 84:135542  
 ED Entered STN: 12 May 1984  
 AB Heating arylmethylguanidines (I, R = Ph, CHMe2; R1 = Cl, MeO) gave the cyclization products II, which were also obtained by refluxing the appropriate arylthioureas (III) in MeOH containing MeI. I and III were prepared by condensation of the nitroanilines IV with ClC(:NR)NPh·HCl and subsequent reduction or by treating the o-phenylenediamines V with PhNCS, resp.  
 IT 58763-99-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 58763-99-8 HCAPLUS  
 CN Thiourea, N-(2-amino-4-methoxyphenyl)-N-methyl-N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 312 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:150881 HCAPLUS Full-text

DOCUMENT NUMBER: 84:150881

TITLE: Modified nucleoside syntheses

AUTHOR(S): Ogura, Haruo; Takahashi, Hiroshi; Takeda, Kazuyoshi; Sakaguchi, Masakazu; Nimura, Noriyuki; Sakai, Hitomi

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, Japan

SOURCE: Hukusokan Kagaku Toronkai Koen Yoshishu, 8th (1975), 154-8. Pharm. Inst., Tohoku Univ.: Sendai, Japan.

CODEN: 32KOAD

DOCUMENT TYPE: Conference

LANGUAGE: Japanese

ED Entered STN: 12 May 1984

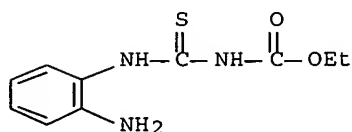
AB The isothiocyanates I and II were treated with o-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)<sub>2</sub> or 5,6-diamino-1,3-dimethyluracil to give the modified nucleosides III and IV (X = CH:CHCH:CH, NMeCONMeCO, resp.). IV reacted with MeI with elimination of MeSH and gave the corresponding imidazoles V. R<sub>2</sub>COCH:C(NH<sub>2</sub>)NMeR<sub>3</sub> (R<sub>2</sub> = EtO, R<sub>3</sub> = Me; R<sub>2</sub>R<sub>3</sub> = NMeCONMe) reacted with I and II to give the corresponding pyrimidines (VI, VII, resp.).

IT 27079-30-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and elimination of hydrogen sulfide)

RN 27079-30-7 HCAPLUS

CN Carbamic acid, [[(2-aminophenyl)amino]thioxomethyl]-, ethyl ester (9CI)  
(CA INDEX NAME)



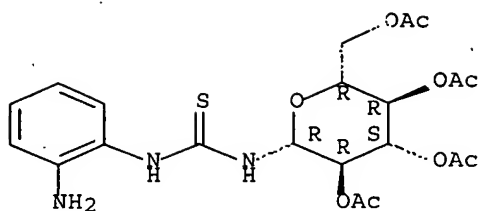
IT 58911-61-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and ring closure of)

RN 58911-61-8 HCAPLUS

CN Thiourea, N-(2-aminophenyl)-N'-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



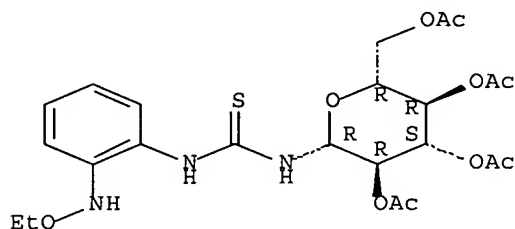
IT 58911-58-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 58911-58-3 HCAPLUS

CN Thiourea, N-[2-(ethoxyamino)phenyl]-N'-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 313 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:106189 HCAPLUS Full-text

DOCUMENT NUMBER: 82:106189

TITLE: Amidines and related compounds. 6.  
Structure-activity relations of antihypertensive and  
antisecretory agents related to clonidine

AUTHOR(S): Jen, Timothy; Van Hoeven, Helene; Groves, William;  
McLean, Richard A.; Loev, Bernard

CORPORATE SOURCE: Res. Dev. Div., Smith Kline and French Lab.,  
Philadelphia, PA, USA

SOURCE: Journal of Medicinal Chemistry (1975),  
18(1), 90-9

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

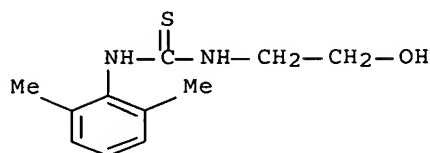
AB A series of 67 analogs of clonidine [4205-90-7] was prepared and tested orally for antihypertensive activity in hypertensive rats and dogs and antisecretory activity in fistula rats. 2-(2,6-Dimethylphenylimino)imidazolidine (I) [4859-06-7] and 2-(2,6-dichlorophenylimino)pyrrolidine (II) [21656-98-4] are effective antisecretory agents with minimal antihypertensive activity. Structure-activity relations are discussed.

IT 52266-60-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclodehydration of)

RN 52266-60-1 HCAPLUS

CN Thiourea, N-(2,6-dimethylphenyl)-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)

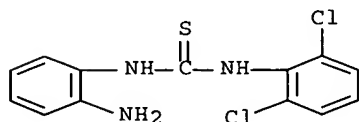


IT 54707-92-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and antihypertensive and antisecretory activity of)

RN 54707-92-5 HCAPLUS

CN Thiourea, N-(2-aminophenyl)-N'-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)

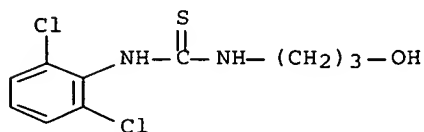


IT 54708-16-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and cyclodesulfurization of)

RN 54708-16-6 HCAPLUS

CN Thiourea, N-(2,6-dichlorophenyl)-N'-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



L49 ANSWER 314 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:592642 HCAPLUS Full-text

DOCUMENT NUMBER: 85:192642

TITLE: Synthesis of thiazolo (4,5-d) (1,3) thiazine derivatives; studies in 4-aminothiazolines-X

AUTHOR(S): Singh, Amrik; Uppal, A. S.

CORPORATE SOURCE: Dep. Chem., Guru Nanak Dev Univ., Amritsar, India

SOURCE: Journal of Chemical Sciences (1975), 1(1), 45-50

CODEN: JCHSD3; ISSN: 0377-8444

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

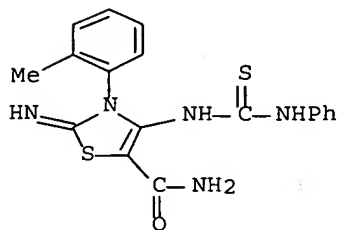
AB Thiazolothiazines I (R = H, Me; R1 = Me, Ph) were prepared by cyclizing thioureas II (R2 = CN, CONH2, CO2Et) with H3PO4, NaOEt, or HCl. II (R2 = CN) were prepared by treating the corresponding amines with R1NCS.

IT 33374-04-8 33453-52-0 61018-29-9  
61018-30-2 61018-31-3 61018-32-4  
61018-33-5 61018-34-6

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)

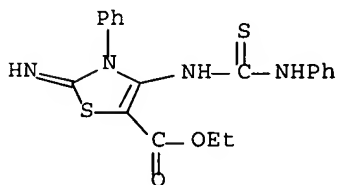
RN 33374-04-8 HCAPLUS

CN 5-Thiazolecarboxamide, 2,3-dihydro-2-imino-3-(2-methylphenyl)-4-  
[[ (phenylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



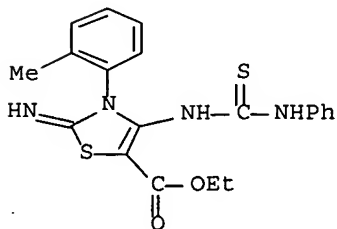
RN 33453-52-0 HCAPLUS

CN 5-Thiazolecarboxylic acid, 2,3-dihydro-2-imino-3-phenyl-4-  
[[ (phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

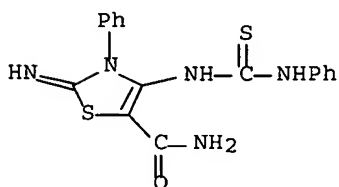


RN 61018-29-9 HCAPLUS

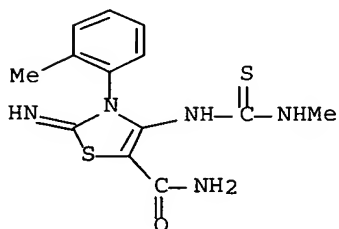
CN 5-Thiazolecarboxylic acid, 2,3-dihydro-2-imino-3-(2-methylphenyl)-4-  
[[ (phenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



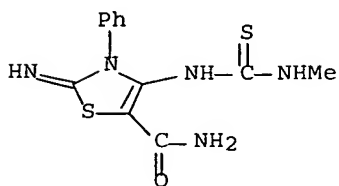
RN 61018-30-2 HCAPLUS  
 CN 5-Thiazolecarboxamide, 2,3-dihydro-2-imino-3-phenyl-4-  
 [[(phenylamino)thioxomethyl]amino]- (9CI) (CA INDEX NAME)



RN 61018-31-3 HCAPLUS  
 CN 5-Thiazolecarboxamide, 2,3-dihydro-2-imino-4-[[[(methylamino)thioxomethyl]a  
 mino]-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)

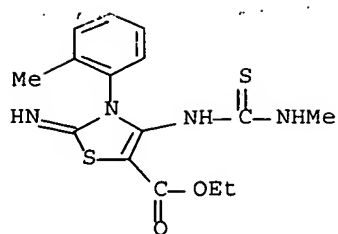


RN 61018-32-4 HCAPLUS  
 CN 5-Thiazolecarboxamide, 2,3-dihydro-2-imino-4-[[[(methylamino)thioxomethyl]a  
 mino]-3-phenyl- (9CI) (CA INDEX NAME)

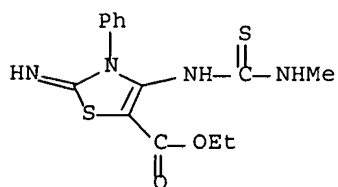


RN 61018-33-5 HCAPLUS  
 CN 5-Thiazolecarboxylic acid, 2,3-dihydro-2-imino-4-  
 [[[(methylamino)thioxomethyl]amino]-3-(2-methylphenyl)-, ethyl ester (9CI)  
 (CA INDEX NAME)

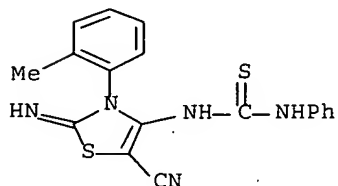




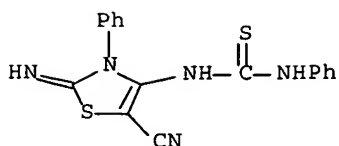
RN 61018-34-6 HCAPLUS  
 CN 5-Thiazolecarboxylic acid, 2,3-dihydro-2-imino-4-  
 [[(methylamino)thioxomethyl]amino]-3-phenyl-, ethyl ester (9CI) (CA INDEX  
 NAME)



IT 61018-21-1P 61018-22-2P 61018-23-3P  
61018-24-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 61018-21-1 HCAPLUS  
 CN Thiourea, N-[5-cyano-2,3-dihydro-2-imino-3-(2-methylphenyl)-4-thiazolyl]-  
 N'-phenyl- (9CI) (CA INDEX NAME)

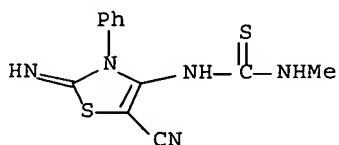


RN 61018-22-2 HCAPLUS  
 CN Thiourea, N-(5-cyano-2,3-dihydro-2-imino-3-phenyl-4-thiazolyl)-N'-phenyl-  
 (9CI) (CA INDEX NAME)



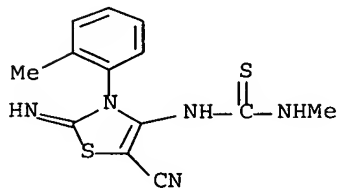
RN 61018-23-3 HCAPLUS

CN Thiourea, N-(5-cyano-2,3-dihydro-2-imino-3-phenyl-4-thiazolyl)-N'-methyl-  
(9CI) (CA INDEX NAME)



RN 61018-24-4 HCAPLUS

CN Thiourea, N-[5-cyano-2,3-dihydro-2-imino-3-(2-methylphenyl)-4-thiazolyl]-  
N'-methyl- (9CI) (CA INDEX NAME)

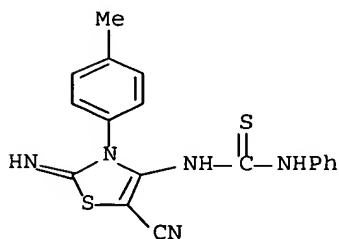


IT 61018-20-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 61018-20-0 HCAPLUS

CN Thiourea, N-[5-cyano-2,3-dihydro-2-imino-3-(4-methylphenyl)-4-thiazolyl]-  
N'-phenyl- (9CI) (CA INDEX NAME)



L49 ANSWER 315 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1975:170829 HCAPLUS Full-text  
 DOCUMENT NUMBER: 82:170829  
 TITLE: Pyrimidine derivatives. XXXVII. N1-(p-Alkoxybenzyl)-  
 5,6-dihydrouracils and thiouracils  
 AUTHOR(S): Kaldrikyan, M. A.; Aroyan, A. A.  
 CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR  
 SOURCE: Armyanskii Khimicheskii Zhurnal (1974),  
 27(12), 1031-6  
 CODEN: AYKZAN; ISSN: 0515-9628

DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 82:170829

ED Entered STN: 12 May 1984

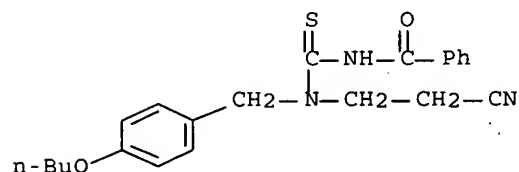
AB Uracils and thiouracils (I; R = C1-4 alkyl, X = O, S) were obtained in 30-85.5% yields by boiling p-ROC6H4CH2NHCH2CH2CO2Me (II) with urea in AcOH 2 hr or by heating with NH4SCN 3 hr at 100-5°. II were obtained in 63-83.5% yields by addition of p-ROC6H4CH2NH2 to CH2:CHCN to give 80.5-91% p-ROC6H4NHCH2CH2CN (III) which were subsequently hydrolyzed. Addition of BzNCS to III gave 66.1-81% p-ROC6H4CH2N(CH2CH2CN)C(S)NHBz (R = C1-4 n-alkyl, Me2CH), which failed to cyclize in either acid or base.

IT 55383-85-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (attempted cyclization of)

RN 55383-85-2 HCAPLUS

CN Benzamide, N-[[[(4-butoxyphenyl)methyl](2-cyanoethyl)amino]thioxomethyl]-  
 (9CI) (CA INDEX NAME)

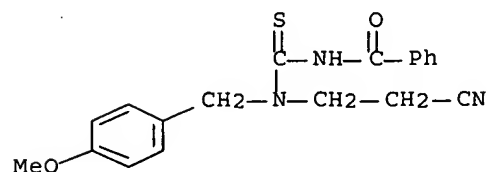


IT 55383-81-8P 55383-82-9P 55383-83-0P  
55383-84-1P

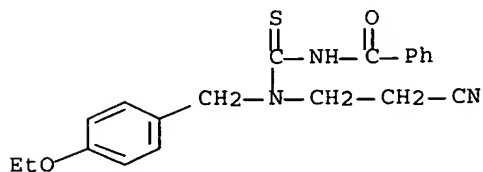
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 55383-81-8 HCAPLUS

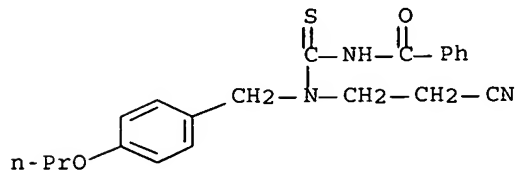
CN Benzamide, N-[[[(2-cyanoethyl)[(4-methoxyphenyl)methyl]amino]thioxomethyl]-  
 (9CI) (CA INDEX NAME)



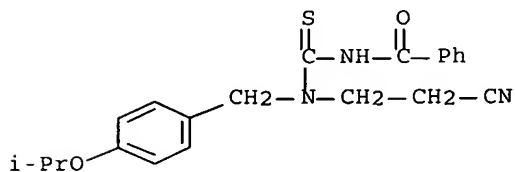
RN 55383-82-9 HCAPLUS  
 CN Benzamide, N-[[[(2-cyanoethyl)[(4-ethoxyphenyl)methyl]amino]thioxomethyl]-(9CI) (CA INDEX NAME)



RN 55383-83-0 HCAPLUS  
 CN Benzamide, N-[[[(2-cyanoethyl)[(4-propoxyphenyl)methyl]amino]thioxomethyl]-(9CI) (CA INDEX NAME)



RN 55383-84-1 HCAPLUS  
 CN Benzamide, N-[[[(2-cyanoethyl)[[4-(1-methylethoxy)phenyl]methyl]amino]thioxomethyl]-(9CI) (CA INDEX NAME)



L49 ANSWER 316 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1974:108840 HCAPLUS Full-text  
 DOCUMENT NUMBER: 80:108840  
 TITLE: Kinetics of the 3-pyridylisothiocyanate reaction with glycine and cyclization of the addition product  
 AUTHOR(S): Nowak, Kornel; Witek, Wieslaw  
 CORPORATE SOURCE: Inst. Biochem. Biophys., Sch. Med., Wroclaw, Pol.  
 SOURCE: Roczniki Chemii (1973), 47(10), 1875-80  
 CODEN: ROCHAC; ISSN: 0035-7677  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

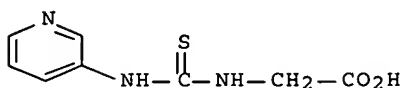
ED Entered STN: 12 May 1984

AB The kinetics of the addition of RNCS (R = 3-pyridyl) to H<sub>2</sub>NCH<sub>2</sub>CO<sub>2</sub>H to give RNHCSNHCH<sub>2</sub>CO<sub>2</sub>H (I) was determined spectrally at 276 nm in a borate buffer at pH 9.8. Similar measurements were made at 235 nm for the subsequent cyclization of I to 3-(3-pyridyl)-2-thiohydantoin in N HCl at 60°. The kinetics indicated that RNCS could be substituted for PhNCS in the Edman peptide degradation. Greater solubility of RNCS in H<sub>2</sub>O was of particular importance.

IT 51622-60-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (ring closure of, kinetics of acidic)

RN 51622-60-7 HCAPLUS

CN Glycine, N-[(3-pyridinylamino)thioxomethyl]- (9CI) (CA INDEX NAME)



L49 ANSWER 317 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:82868 HCAPLUS Full-text

DOCUMENT NUMBER: 80:82868

TITLE: Synthesis of 2-mercaptothieno[2,3-d]pyrimidine-4(3H)-ones

AUTHOR(S): Sauter, F.; Deinhammer, W.

CORPORATE SOURCE: Inst. Org. Chem., Tech. Hochsch. Wien, Vienna, Austria

SOURCE: Monatsh. Chem. (1973), 104(6), 1593-8  
 CODEN: MOCHAP

DOCUMENT TYPE: Journal

LANGUAGE: German

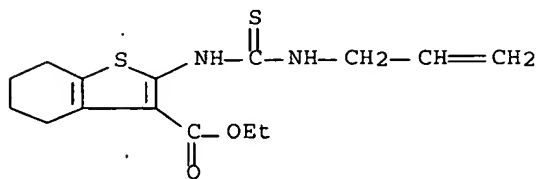
ED Entered STN: 12 May 1984

AB Thienopyrimidines I (R = H, R<sub>1</sub> = H, Me, R<sub>2</sub> = Me; R = H, Me, R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>)<sub>4</sub>) were prepared by cyclizing aminothiophenes II (R<sub>3</sub> = OEt, NH<sub>2</sub>) with thiourea. I (R = allyl, R<sub>1</sub> = R<sub>2</sub> = H, Me, R<sub>1</sub>R<sub>2</sub> = (CH<sub>2</sub>)<sub>4</sub>; R = R<sub>1</sub> = Me, R<sub>2</sub> = H) were similarly obtained from II (R<sub>3</sub> = OEt, OMe) and RNCS

IT 42062-89-5P 51486-13-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

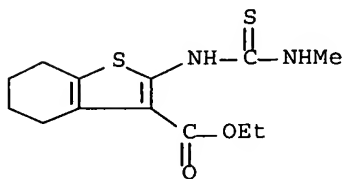
RN 42062-89-5 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-[[2-propenylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 51486-13-6 HCAPLUS

CN Benzo[b]thiophene-3-carboxylic acid, 4,5,6,7-tetrahydro-2-  
[[ (methylamino)thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

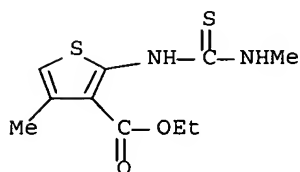


IT 51486-15-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 51486-15-8 HCAPLUS

CN 3-Thiophenecarboxylic acid, 4-methyl-2-[[ (methylamino)thioxomethyl]amino]-  
, ethyl ester (9CI) (CA INDEX NAME)



L49 ANSWER 318 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:83464 HCAPLUS Full-text

DOCUMENT NUMBER: 80:83464

TITLE: N-glycosides of nitrogen-bearing heterocycles. I.  
Preparation of N-glycoside of 2-amino-5-(3-pyridyl)-  
1,3,4-oxadiazole and estimation of its antiviral  
activity

AUTHOR(S): Wieniawski, Witold; Gmernicka-Haftek, Cecylia;  
Korbecki, Michal; Walczak, Elzbieta

CORPORATE SOURCE: Inst. Lekow, Warsaw, Pol.

SOURCE: Acta Poloniae Pharmaceutica (1973), 30(3),  
255-60

CODEN: APPHAX; ISSN: 0001-6837

DOCUMENT TYPE: Journal

LANGUAGE: Polish

ED Entered STN: 12 May 1984

AB 2,3,4,6-Tetra-O-acetyl-D-glucopyranosyl isothiocyanate with nicotinoyl  
hydrazide in boiling 1,4-dioxane gave 85% I, which shaken with yellow HgO in  
90% EtOH yielded 48% II (R = Ac). Deacetylation by refluxing with dilute  
MeONa gave II (R = H) (III). LD50 for III on oral administration to mice was  
>5000 mg/kg; III revealed antiviral activity, acting presumably as a RNA  
antimetabolite.

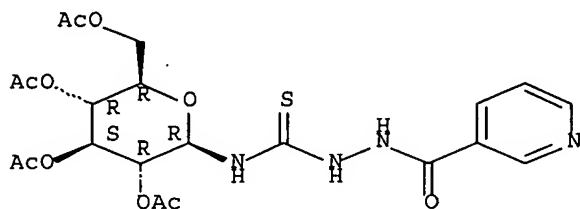
IT 51587-40-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation and ring closure of)

RN 51587-40-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)amino]thioxomethyl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L49 ANSWER 319 OF 320 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:526534 HCAPLUS Full-text

DOCUMENT NUMBER: 77:126534

TITLE: Synthesis of 4,4,6-trimethyl-2-aryl-1,3-thiazines

AUTHOR(S): Ovechkin, P. L.; Ignatova, L. A.; Gekhman, A. E.; Unkovskii, B. V.

CORPORATE SOURCE: Mosk. Inst. Tonkoi Khim. Tekhnol. im. Lomonosova, Moscow, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1972), (7), 937-40

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal

LANGUAGE: Russian

ED Entered STN: 12 May 1984

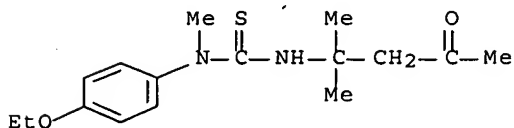
AB 4,6,6-Trimethyl-3-aryl-1,2,3,6-tetrahydropyrimidin-2-thiones (I, R = Br, Cl, Me, OH, CN, OEt, COMe, NO<sub>2</sub>) were prepared by reaction of RC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> with 2-methylpentan-4-on-2-isothiocyanate; on heating with HCl, the former rearranged to 4,4,6-trimethyl-2-aryl-1,3-thiazines (II, R = H; R<sub>1</sub> = Br, Cl, Me, OH, CN, OEt, COMe, NO<sub>2</sub>). Substituted 2-methylarylaminothiazines (R = Me; R<sub>1</sub> = H, Me, OMe, OEt) were prepared by treating MeCOCH<sub>2</sub>CMe<sub>2</sub>NCS with RC<sub>6</sub>H<sub>4</sub>NHMe to give MeCOCH<sub>2</sub>CMe<sub>2</sub>NHC(:S)NMeC<sub>6</sub>H<sub>4</sub>R which was cyclized by treatment with HCl.

IT 37489-60-4P 37489-61-5P 37489-62-6P  
37489-63-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

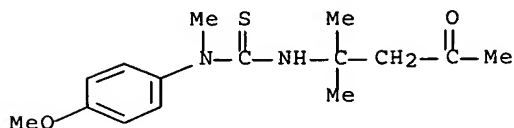
RN 37489-60-4 HCAPLUS

CN Thiourea, N'-(1,1-dimethyl-3-oxobutyl)-N-(4-ethoxyphenyl)-N-methyl- (9CI) (CA INDEX NAME)



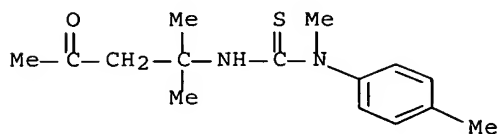
RN 37489-61-5 HCAPLUS

CN Thiourea, N'-(1,1-dimethyl-3-oxobutyl)-N-(4-methoxyphenyl)-N-methyl- (9CI)  
(CA INDEX NAME)



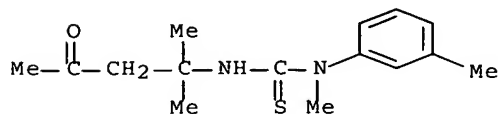
RN 37489-62-6 HCAPLUS

CN Thiourea, N'-(1,1-dimethyl-3-oxobutyl)-N-methyl-N-(4-methylphenyl)- (9CI)  
(CA INDEX NAME)



RN 37489-63-7 HCAPLUS

CN Thiourea, N'-(1,1-dimethyl-3-oxobutyl)-N-methyl-N-(3-methylphenyl)- (9CI)  
(CA INDEX NAME)

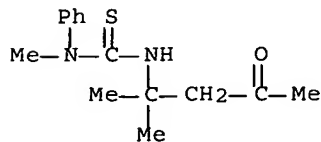


IT 37489-64-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

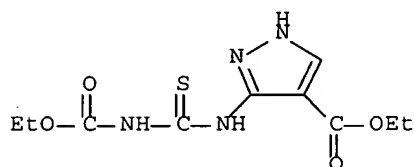
RN 37489-64-8 HCAPLUS

CN Thiourea, N'-(1,1-dimethyl-3-oxobutyl)-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)





DOCUMENT NUMBER: 76:14500  
 TITLE: Heterocyclizations. IX. Preparation of pyrazolo-, triazolo-, oxazolo-, and thiazolo-s-triazines with a bridgehead nitrogen and of an isopurine N-carboxylic ester  
 AUTHOR(S): Capuano, Lilly; Schrepfer, H. Juergen  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Saarland, Saarbruecken, Fed. Rep. Ger.  
 SOURCE: Chemische Berichte (1971), 104(10), 3039-47  
 CODEN: CHBEAM; ISSN: 0009-2940  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 76:14500  
 ED Entered STN: 12 May 1984  
 AB 5-Aminopyrazole (I) and 3-amino-1H-1,2,4-triazole (II) reacted with RCONCX (where R = EtO or Ph, X = O or S) to give the corresponding amino-acylated derivs., which were cyclized by heating with basic catalysts, e.g. pyridine, to give 4-oxo-2-thioxo-1,2,3,4-tetrahydropyrazolo[2,3-a]-s-triazine (III, X = S), the 2,4-dioxo analog (III, X = O), and 4-oxo-2-thioxo-1,2,3,4-tetrahydro-1,2,4-triazolo[2,3-a]-s-triazine (IV). 2-Amino-Δ<sup>2</sup>-oxazoline and -thiazoline were directly cyclized by reaction with EtO<sub>2</sub>CNCS to give 4-oxo-2-thioxo-3,4,6,7-tetrahydro-2H-oxazolo[3,2-a]-s-triazine (V, X = O) and the thiazolo analog (V, X = S), resp. An ester group neighboring to the amino group caused the incorporation of the isothiocyanate yielding the corresponding pyrazolo[3,4-a]pyrimidine N-carboxylate. 5-Aminotetrazole and 2-aminobenzimidazole reacted similarly.  
 IT 34683-27-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 34683-27-7 HCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 3-[[[(ethoxycarbonyl)amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



=> d his ful

(FILE 'HOME' ENTERED AT 11:20:07 ON 24 JAN 2007)

FILE 'STNGUIDE' ENTERED AT 11:20:16 ON 24 JAN 2007  
 D SAVED

FILE 'REGISTRY' ENTERED AT 11:21:33 ON 24 JAN 2007  
 ACT LOE105PSETR/A

L1 STR  
 L2 118553 SEA SSS FUL L1

-----  
D QUE

FILE 'STNGUIDE' ENTERED AT 11:22:22 ON 24 JAN 2007

FILE 'LREGISTRY' ENTERED AT 11:23:11 ON 24 JAN 2007

L3 STRUCTURE UPLOADED

D QUE

L4 STRUCTURE UPLOADED

D QUE

FILE 'STNGUIDE' ENTERED AT 11:24:50 ON 24 JAN 2007

FILE 'REGISTRY' ENTERED AT 11:25:15 ON 24 JAN 2007

L5 SCREEN 1437 OR 1485 OR 1455

L6 50 SEA SSS SAM L4

D QUE STAT

L7 50 SEA SSS SAM (L5 AND L4)

FILE 'STNGUIDE' ENTERED AT 11:26:55 ON 24 JAN 2007

D SAVED

FILE 'ZCAPLUS' ENTERED AT 11:28:07 ON 24 JAN 2007

L8 QUE ABB=ON PLU=ON ?CYCLIZ? OR ?CYCLIS? OR (RING (3A) (CLOS?  
OR FORM OR FORMING OR FORMED OR FORMS OR FORMATION))

L9 QUE ABB=ON PLU=ON ?CYCLODESUL? OR (?CYCLO(W)DESUL?) OR  
( (?CYCLO OR ?CYCLIC) (W) ((DE(W) (SULF? OR SULPH?))))

L10 QUE ABB=ON PLU=ON AY<2005 OR PY<2005 OR PRY<2005 OR MY<2005  
OR REVIEW/DT

FILE 'STNGUIDE' ENTERED AT 11:31:30 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 11:31:41 ON 24 JAN 2007

L11 11587 SEA ABB=ON PLU=ON L2

L12 652 SEA ABB=ON PLU=ON L11 (L) (L8 OR L9)

L13 626 SEA ABB=ON PLU=ON L12 AND L10

L14 2991 SEA ABB=ON PLU=ON L2 (L) (RACT+NT)/RL

L15 591 SEA ABB=ON PLU=ON L12 AND L14

L16 566 SEA ABB=ON PLU=ON L13 AND L15

FILE 'STNGUIDE' ENTERED AT 11:35:08 ON 24 JAN 2007

FILE 'LREGISTRY' ENTERED AT 11:40:28 ON 24 JAN 2007

L17 STRUCTURE UPLOADED

D QUE

FILE 'REGISTRY' ENTERED AT 11:41:17 ON 24 JAN 2007

D QUE L5

FILE 'STNGUIDE' ENTERED AT 11:41:54 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 11:42:14 ON 24 JAN 2007

L18 429 SEA ABB=ON PLU=ON L16 NOT PATENT/DT

L19 10 SEA ABB=ON PLU=ON L16 AND REVIEW/DT

FILE 'STNGUIDE' ENTERED AT 11:43:06 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 11:45:02 ON 24 JAN 2007

D SCAN TI HIT

FILE 'STNGUIDE' ENTERED AT 11:45:30 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 11:47:08 ON 24 JAN 2007

FILE 'STNGUIDE' ENTERED AT 11:47:15 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 11:51:47 ON 24 JAN 2007

L20 80 SEA ABB=ON PLU=ON L11 (L) CAT/RL  
L21 565 SEA ABB=ON PLU=ON L16 NOT L20

FILE 'STNGUIDE' ENTERED AT 11:53:22 ON 24 JAN 2007

FILE 'REGISTRY' ENTERED AT 11:57:48 ON 24 JAN 2007

L22 1331609 SEA ABB=ON PLU=ON (?SULFONYL? OR ?SULPHONYL?)/CNS

FILE 'STNGUIDE' ENTERED AT 11:58:35 ON 24 JAN 2007

FILE 'REGISTRY' ENTERED AT 11:59:04 ON 24 JAN 2007  
SAVE TEMP L2 LOE105REGR2/A

FILE 'STNGUIDE' ENTERED AT 12:00:10 ON 24 JAN 2007  
D SCAN  
D SAVED

FILE 'REGISTRY' ENTERED AT 12:00:59 ON 24 JAN 2007  
ACT LOE105REGAPP/A

L23 ( 1)SEA ABB=ON PLU=ON US2004-840105/APPS  
L24 SEL PLU=ON L23 1- RN : 72 TERMS  
L25 72 SEA ABB=ON PLU=ON L24

L26 23 SEA ABB=ON PLU=ON L25 AND (S/ELS AND CL/ELS)  
D SCAN

FILE 'STNGUIDE' ENTERED AT 12:02:04 ON 24 JAN 2007

FILE 'REGISTRY' ENTERED AT 12:02:43 ON 24 JAN 2007  
L27 1 SEA ABB=ON PLU=ON L26 AND "C7 H7 CL O2 S"/MF

FILE 'STNGUIDE' ENTERED AT 12:02:58 ON 24 JAN 2007

FILE 'ZCAPLUS' ENTERED AT 12:04:29 ON 24 JAN 2007  
L28 QUE ABB=ON PLU=ON ?ISOTHIOCYAN? OR (ISO(W)THIOCYAN?) OR  
(ISOTHIOW)CYAN?) OR NCS

FILE 'HCAPLUS' ENTERED AT 12:05:51 ON 24 JAN 2007

L29 3281 SEA ABB=ON PLU=ON L11 AND L28  
L30 343 SEA ABB=ON PLU=ON L16 AND L29  
L31 6 SEA ABB=ON PLU=ON L19 AND L30  
D QUE L30  
L32 212 SEA ABB=ON PLU=ON L11 (L) L28  
L33 12 SEA ABB=ON PLU=ON L30 AND L32  
D SCAN TI HIT

FILE 'STNGUIDE' ENTERED AT 12:08:41 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 12:10:10 ON 24 JAN 2007  
L34 269 SEA ABB=ON PLU=ON L30 NOT PATENT/DT

FILE 'STNGUIDE' ENTERED AT 12:10:41 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 12:12:23 ON 24 JAN 2007  
L35 8022 SEA ABB=ON PLU=ON L27  
L36 110 SEA ABB=ON PLU=ON L11 AND L35  
L37 0 SEA ABB=ON PLU=ON L11(L) L35  
L38 6900 SEA ABB=ON PLU=ON L35 (L) (RACT+NT)/RL  
L39 108 SEA ABB=ON PLU=ON L36 AND L38

FILE 'STNGUIDE' ENTERED AT 12:15:32 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 12:15:48 ON 24 JAN 2007  
L40 50 SEA ABB=ON PLU=ON L36 AND L14

FILE 'STNGUIDE' ENTERED AT 12:16:22 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 12:16:38 ON 24 JAN 2007  
L41 49 SEA ABB=ON PLU=ON L40 AND L38  
L42 50 SEA ABB=ON PLU=ON L40 OR L41  
L43 47 SEA ABB=ON PLU=ON L42 AND L10

FILE 'STNGUIDE' ENTERED AT 12:17:15 ON 24 JAN 2007

FILE 'HCAPLUS' ENTERED AT 12:19:56 ON 24 JAN 2007  
SAVE TEMP L18 LOE105NOPAT/A

FILE 'STNGUIDE' ENTERED AT 12:20:30 ON 24 JAN 2007  
D SAVED  
D QUE L34  
D QUE STAT L19  
D QUE STAT L33  
D QUE L19  
D QUE L34

FILE 'HCAPLUS' ENTERED AT 12:27:31 ON 24 JAN 2007  
L44 275 SEA ABB=ON PLU=ON L19 OR L33 OR L34

FILE 'STNGUIDE' ENTERED AT 12:27:49 ON 24 JAN 2007  
D SAVED

FILE 'CASREACT' ENTERED AT 12:28:17 ON 24 JAN 2007  
ACT LOE105CRXREF/A  
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L45 STR  
L46 ( 366)SEA SSS FUL L45 ( 2195 REACTIONS)  
L47 STR  
L48 61 SEA SUB=L46 SSS FUL L47 ( 273 REACTIONS)  
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SAVE TEMP L48 LOE105CRXIII/A

FILE 'STNGUIDE' ENTERED AT 12:30:05 ON 24 JAN 2007  
D QUE STAT L48

FILE 'CASREACT, HCAPLUS' ENTERED AT 12:30:20 ON 24 JAN 2007  
L49 320 DUP REM L48 L44 (16 DUPLICATES REMOVED)  
ANSWERS '1-61' FROM FILE CASREACT  
ANSWERS '62-320' FROM FILE HCAPLUS

FILE 'STNGUIDE' ENTERED AT 12:30:39 ON 24 JAN 2007

FILE 'STNGUIDE' ENTERED AT 12:32:29 ON 24 JAN 2007

FILE 'HCAPLUS, CASREACT' ENTERED AT 12:39:18 ON 24 JAN 2007  
D IBIB ED AB HITSTR 62-320

FILE 'STNGUIDE' ENTERED AT 12:42:27 ON 24 JAN 2007

FILE HOME

FILE STNGUIDE  
FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jan 19, 2007 (20070119/UP).

FILE REGISTRY  
Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 JAN 2007 HIGHEST RN 918293-89-7  
DICTIONARY FILE UPDATES: 23 JAN 2007 HIGHEST RN 918293-89-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE LREGISTRY  
LREGISTRY IS A STATIC LEARNING FILE

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FILE COVERS 1907 - 24 Jan 2007 VOL 146 ISS 5  
FILE LAST UPDATED: 23 Jan 2007 (20070123/ED)

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FILE CONTENT:1840 - 21 Jan 2007 VOL 146 ISS 4

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